

Incident ID	NAPP2116630183
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Halie Butler Title: Sr. Corporate Compliance and Environmental Manager
Signature:  Date: 5/3/2022
Email: hbutler@selectenergy.com Telephone: 281-467-3153

OCD Only

Received by: Robert Hamlet Date: 6/22/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 6/22/2022
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2116630183
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Release Notification

Responsible Party

Responsible Party	Select Energy Services	OGRID	289068
Contact Name	Halie Butler	Contact Telephone	281-467-3153
Contact email	hbutler@selectenergy.com	Incident # (assigned by OCD)	NAPP2116630183
Contact mailing address	P.O. Box 1715 Gainesville, TX 76241		

Location of Release Source

Latitude 32.66551 Longitude -104.14693
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Palmio AST	Site Type	Pit
Date Release Discovered	5/22/2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
A	14	19S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 550	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Human Error		

Incident ID	NAPP2116630183
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, notification of release was recieved by the NMOCD 6/15/2021.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Halie Butler	Title: Sr. Corporate Compliance and Enviromental Manager
Signature: 	Date: 5/3/2022
email: hbutler@selectenergy.com	Telephone: 281-467-3153
<u>OCD Only</u> Received by: _____ Date: _____	

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Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

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☒ Produced Water	Volume Released (bbls) 550	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
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Signature: 	Date: 5/3/2022
email: hbutler@selectenergy.com	Telephone: 281-467-3153
<u>OCD Only</u> Received by: _____ Date: _____	

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>84</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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Printed Name: Halie Butler Title: Sr. Corporate Compliance and Enviromental Manager

Signature:  Date: 5/3/2022

Email: hbutler@selectenergy.com Telephone: 281-467-3153

OCD Only

Received by: _____ Date: _____

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Halie Butler Title: Sr. Corporate Compliance and Enviromental Manager

Signature:  Date: 5/3/2022

Email: hbutler@selectenergy.com Telephone: 281-467-3153

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	NAPP2116630183
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Facility ID	
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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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Printed Name: Halie Butler Title: Sr. Corporate Compliance and Environmental Manager
Signature:  Date: 5/3/2022
Email: hbutler@selectenergy.com Telephone: 281-467-3153

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

NAPP2116630183
Delineation and Remediation Report
Palmio AST
Produced Water Release
Eddy County, New Mexico

Latitude: 32.66551
Longitude: -104.14693

LAI Project No. 21-0105-02

May 3, 2022

Prepared for:
Select Energy Services, LLC.
5721 NM 132nd Street
Oklahoma City, Oklahoma 43142

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 202
Midland, Texas 79701



Mark J. Larson
Certified Professional Geologist #10490



Daniel St. Germain
Staff Geologist

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Figure 2	Aerial Map
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Figure 4a	Aerial Map with Excavated Areas and Confirmation Sample Locations in Spill Areas A and B
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Figure 4c	Aerial Map with Excavated Areas and Confirmation Sample Locations in Spill Areas D and E

Appendices

Appendix A	Initial C-141 and Initial Summary
Appendix B	NMOCD Communications
Appendix C	Karst Potential Map
Appendix D	Boring Log
Appendix E	Laboratory Reports
Appendix F	Photographic Documentation

NAPP2116630183
Delineation and Closure Report
Select Energy Services, LLC., Apache Palmio AST
Produced Water Release
May 3, 2022

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this delineation and remediation report on behalf of Select Energy Services, LLC. (Select) for submittal to the New Mexico Oil Conservation Division (NMOCD) District 2 for a produced water release at the Palmio AST (Site). The Site is located in Unit A (NW/4, NE/4), Section 14, Township 19 South, Range 28 East in Eddy County, New Mexico. The geodetic position is 32.66551° North and -104.14693° West. Figure 1 presents a topographic map. Figure 2 presents an aerial imagery map.

1.1 Background

The release occurred on May 22, 2021, as the result of a tie-in connection for two (2) lay flat lines not being securely fastened. Approximately 550 barrels of produced water was released with no fluid recovered. LAI personnel mapped the release with a Trimble sub-meter GPS receiver and calculated the spill area at 238,500 square feet or about 5.47 acres. The NMOCD issued tracking number for the release is NAPP2116630183. Appendix A presents the initial C-141 and initial summary. Appendix B presents NMOCD communications. Figure 3 presents a map of the spill area.

1.2 Physical Setting

The physical setting is as follows:

- Surface elevation is approximately 3,427 feet above sea mean sea level (msl).
- Surface topography slopes gently to the southeast.
- No surface water features are located within 1,000 feet of the Site.
- USGS karst potential data designates Spill Area A as medium risk and Spill Areas B, C, D, and E as low risk.
- Soils in Spill Area A are designated as Tonuco loamy fine sand, 0 to 3% slopes, eroded, consisting of 0 to 15 inches of loamy fine sand underlain by 15 - 19 inches of indurated material (caliche).
- Soils in Spill Areas B, C, D, and E are designated as Simona-Bippus complex, 0 to 5% slopes, consisting of 0 to 19 inches of gravelly fine sandy loam, underlain by 19 to 23 inches of indurated material (caliche).
- The geology consists of Holocene to middle Pleistocene eolian deposits.
- Groundwater is greater than 84 feet below ground surface (bgs) based on a soil boring (BH-1) drilled on June 26, 2021, and gauged for depth to groundwater (dry) after 72 hours.

Appendix C presents a karst potential map. Appendix D presents the lithologic boring log for BH-1.

1.3 Remediation Standards

The Following remediation standards are based on closure criteria for soil impacted by a release as presented in Table 1 of 19.15.29 NMAC for groundwater between 51 and 100 feet bgs:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 2,500 mg/Kg
- Chloride 10,000 mg/Kg

NAPP2116630183
Delineation and Closure Report
Select Energy Services, LLC., Apache Palmio AST
Produced Water Release
May 3, 2022

Furthermore, 19.15.29.13 NMAC (Restoration, Reclamation, and Revegetation) requires the operator to restore the impacted surface area to the condition prior to the release, or to its final land use.

2.0 DELINEATION

From May 25 to 27, 2021, LAI personnel used stainless steel hand augers to collect soil samples from sixty-nine (69) locations (S-1 through S-69) inside the spill area and four (4) locations (D-1 through D-4) in each cardinal direction outside of the spill area. Samples were collected at 0.5 and 1-foot bgs at each sample location. The samples were delivered under chain of custody and preservation to Permian Basin Environmental Lab (PBEL) in Midland, Texas. The samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW-846 Method 8021B, total petroleum hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by Method 8015M, and chloride by EPA Method 300.

Benzene, BTEX, and TPH were below the NMOCD delineation limits (19.15.29 NMAC Table 1) of 10 milligrams per kilogram (mg/Kg), 50 mg/Kg, and 100 mg/Kg, respectfully. Chloride was above the NMOCD delineation limit of 600 mg/Kg in fifty-one (51) samples from the following locations:

Sample ID	Depth (feet)	Cl ⁻ (mg/Kg)	Sample ID	Depth (feet)	Cl ⁻ (mg/Kg)	Sample ID	Depth (feet)	Cl ⁻ (mg/Kg)
S-1	1	1,1570	S-22	1	1,470	S-50	1	1,180
S-2	1	1,910	S-23	1	1,320	S-52	1	932
S-4	1	970	S-24	1	9,750	S-54	1	8,540
S-5	1	689	S-25	1	947	S-55	1	4,320
S-6	1	1,950	S-26	1	1,690	S-56	1	6,070
S-7	1	6,420	S-27	1	1,490	S-57	1	7,920
S-8	1	1,450	S-28	1	9,820	S-58	1	8,810
S-9	1	858	S-29	1	5,000	S-59	1	8,390
S-10	1	1,330	S-30	1	5,960	S-60	1	6,180
S-11	1	2,960	S-31	1	8,500	S-61	1	4,370
S-12	1	6,450	S-32	1	3,290	S-62	1	7,700
S-13	1	9,130	S-33	1	6,210	S-63	1	799
S-15	1	1,060	S-37	1	3,440	S-64	1	4,660
S-17	1	5,730	S-39	1	6,380	S-65	1	8,210
S-19	1	2,310	S-40	1	4,400	S-66	1	788
S-20	1	2,260	S-41	1	5,830	S-68	1	3,890
S-21	1	1,490	S-43	1	741	S-69	1	2,260

Between June 30, 2021, and July 16, 2021, LAI personnel used a Geoprobe 7822® direct push rig to further delineate chloride. Samples were collected at the above locations from one (1), three (3), five (5), and ten (10) feet bgs, depending on subsurface conditions. The samples were delivered under chain of custody and preservation to Eurofins Xenco Laboratories (Xenco) in Midland, Texas. Xenco analyzed the samples for BTEX, TPH, and chloride by EPA SW-846 Method 8021B, Method 8015M, Method 300, respectively.

NAPP2116630183
Delineation and Closure Report
Select Energy Services, LLC., Apache Palmio AST
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May 3, 2022

All samples were below NMOCD delineation limits for benzene (10 mg/Kg), BTEX (50 mg/Kg), and TPH (100 mg/Kg). Chloride was above NMOCD delineation limit of 600 mg/Kg in samples from locations S-20 at eight (8) feet bgs (1,200 mg/Kg), S-21 at ten (10) feet bgs (1210 mg/Kg), and S-23 at ten (10) feet bgs (655 mg/Kg).

On November 30, 2021, Scarbrough Drilling Inc. (SDI) under the supervision of LAI personnel used an air rotary rig to further delineate chloride at three (3) sample locations (S-20, S-21, S-23). Samples were collected from S-21 and S-22 at ten (10), fifteen (15), twenty (20), twenty-five (25), and thirty (30) feet bgs. Samples were collected from S-23 at fifteen (15) and twenty (20) feet bgs.

Xenco analyzed the samples for chloride by Method 300 and reported chloride in the deepest samples below 600 mg/Kg demonstrating that chloride was fully delineated for groundwater between 51 and 100 feet bgs. Table 1 presents a summary of delineation analytical results. Figure 3a presents an aerial map with sample locations in Spill Areas A and B. Figure 3b presents an aerial map with sample locations in Spill Area C. Figure 3c presents an aerial map with sample locations in Spill Areas D and E. Appendix E presents the laboratory reports.

3.0 REMEDIATION

On August 2, 2021, P2 Construction Inc. (P2), under supervision of LAI, began excavating soil from the release area.. The spill area was subdivided into five (5) areas: Spill Area A (25,777 square feet), Spill Area B (11,131 square feet), Spill Area C (45,189 square feet), Spill Area D (106,634 square feet), and Spill Area E (49,769 square feet). Excavated soil was temporally stored on plastic liners near each excavation prior disposal at Lea Land Landfill LLC, an NMOCD permitted disposal facility located approximately 29 miles northwest of Carlsbad, New Mexico.

Week 1: August 2, 2021, through August 6, 2021

On August 6, 2021, LAI personnel collected thirty-eight (38) composite confirmation samples (C-1 through C-38) from the bottom and sidewalls of the excavation. Xenco analyzed the samples for BTEX, TPH, and chloride by EPA SW-846 Method 8021B, Method 8015M, Method 300, respectively.

Xenco analyzed the samples and reported benzene, BTEX, TPH and chloride below NMOCD closure criteria of 10 mg/Kg, 50 mg/Kg, 2,500 mg/Kg, 10,000 mg/Kg, respectively, in for groundwater between 50 and 100 feet bgs.

Week 2: August 9, 2021, through August 13, 2021

On August 11 and 12, 2021, LAI personnel collected thirty-seven (37) composite confirmation samples (C-39 through C-75) from the bottom of the excavation. Xenco analyzed the samples and reported benzene, BTEX, and TPH below the NMOCD closure criteria. Chloride was reported above the NMOCD closure criteria in the following fifteen (15) samples:

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Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)	Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)
C-40	Bottom	1	1,350	C-55	Bottom	1	2,000
C-41	Bottom	1	1,200	C-56	Bottom	1	2,430
C-44	Bottom	1	3,730	C-57	Bottom	1	2,280
C-46	Bottom	1	3,610	C-58	Bottom	1	2,120
C-47	Bottom	1	724	C-59	Bottom	1	1,080
C-48	Bottom	1	1,060	C-61	Bottom	1	1,870
C-51	Bottom	1	606	C-72	Bottom	1	1,420
C-54	Bottom	1	1,930	--	--	--	--

Week 3: August 16, 2021, through August 20, 2021

On August 16 and 20, 2021, LAI personnel collected forty (40) composite confirmation samples (C-76 through C-116) from the bottom of the excavation. Xenco analyzed the samples and reported benzene, BTEX, and TPH below the NMOCD closure criteria. Chloride was reported above NMOCD closure criteria in sample C-83 (1,070 mg/Kg).

Week 4: August 23, 2021, through August 27, 2021

On August 25 and 26, 2021, LAI personnel collected eighty-six (86) composite confirmation samples (C-117 through C-202) from the bottom of the excavation. Xenco analyzed the samples and reported benzene, BTEX, and TPH below NMOCD closure criteria. Chloride was reported above NMOCD closure criteria in five (5) samples, C-153 (792 mg/Kg), C-162 (1,270 mg/Kg), C-183 (746 mg/Kg), C-200 (5,330 mg/Kg) and C-201 (4,900 mg/Kg).

Week 5: August 30, 2021, through September 3, 2021

On September 1 and 2, 2021, LAI personnel collected fifty-five (55) composite confirmation samples (C-203 through C-257) from the bottom and sidewalls of the excavation. Xenco analyzed the samples and reported benzene, BTEX, and TPH below the NMOCD closure criteria. Chloride was above the NMOCD closure criteria in three (3) samples, C-206 (3,760 mg/Kg), C-236 (774 mg/Kg), and C-238 (813 mg/Kg).

Week 6: September 6, 2021, through September 10, 2021

On September 8 and 9, 2021, LAI personnel collected sixty-five (65) composite samples (C-258 through C-322) from the bottom of the excavation. Xenco analyzed the samples and reported benzene, BTEX and TPH below the NMOCD closure criteria. Chloride was reported above NMOCD closure criteria in sample C-301 (677 mg/Kg).

Week 7: September 13, 2021, through September 17, 2021

Between September 14-16, 2021, LAI personnel collected 144 composite samples (C-323 through C-466) from the bottom and sidewalls of the excavation. Xenco analyzed the samples and reported benzene, BTEX and TPH below the NMOCD closure criteria. Chloride was reported above the NMOCD closure criteria in the following fourteen (14) samples:

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Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)	Sample ID	Position	Depth	Cl ⁻ (mg/Kg)
C-323	Sidewall	0-4.1	992	C-361	Bottom	1.5	664
C-326	Sidewall	0-4.1	1,540	C-364	Bottom	1.5	732
C-331	Sidewall	0-4.1	2,600	C-378	Bottom	1.5	1,480
C-342	Sidewall	0-1.5	976	C-379	Bottom	1.5	1,310
C-344	Bottom	1.5	1,110	C-380	Bottom	1.5	1,590
C-346	Bottom	1.5	762	C-381	Bottom	1.5	1,580
C-347	Bottom	1.5	981	C-382	Bottom	1.5	1,090

Week 8: September 20, 2021, through September 24, 2021

Between September 21-23, 2021, LAI personnel collected 165 composite confirmation samples (C-467 through C-632) from the bottom and sidewalls of the excavation. Xenco analyzed the samples and reported benzene, BTEX, and TPH below the NMOCD closure criteria. Chloride was reported above NMOCD closure criteria in the following eighty-five (85) composite samples:

Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)	Sample	Position	Depth	Cl ⁻ (mg/Kg)
C-470	Sidewall	1	1,440	C-522	Bottom	1	1,010
C-471	Bottom	1	655	C-524	Bottom	1	2,000
C-473	Bottom	1	2,860	C-525	Bottom	1	1,410
C-482	Bottom	1	1,580	C-526	Bottom	1	1,960
C-483	Bottom	1	1,880	C-527	Bottom	1	2,460
C-484	Bottom	1	1,360	C-528	Bottom	1	1,450
C-485	Bottom	1	1,110	C-529	Bottom	1	2,080
C-486	Bottom	1	8,640	C-531	Bottom	1	887
C-487	Bottom	1	2,250	C-538	Bottom	1	748
C-488	Bottom	1	1,510	C-550	Bottom	1	798
C-489	Bottom	1	1,670	C-554	Bottom	1	955
C-490	Bottom	1	727	C-562	Bottom	1	1,660
C-491	Bottom	1	3,210	C-565	Bottom	1	1,360
C-493	Bottom	1	1,680	C-566	Bottom	1	1,070
C-494	Bottom	1	3,150	C-567	Bottom	1	741
C-495	Bottom	1	1,610	C-571	Bottom	1	651
C-496	Bottom	1	1,720	C-576	Bottom	1	646
C-497	Bottom	1	1,890	C-578	Bottom	1	647
C-499	Bottom	1	2,830	C-579	Bottom	1	970
C-500	Bottom	1	885	C-580	Bottom	1	764
C-501	Bottom	1	1,230	C-583	Bottom	1	1,040
C-502	Bottom	1	1,490	C-584	Bottom	1	1,000
C-503	Bottom	1	1,920	C-588	Bottom	1	1,020
C-504	Bottom	1	2,370	C-589	Bottom	1	867
C-505	Bottom	1	1,200	C-590	Bottom	1	1,120
C-507	Bottom	1	1,450	C-592	Bottom	1	1,440
C-508	Bottom	1	2,180	C-593	Bottom	1	2,000

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Sample ID	Position	Depth (ft)	Cl- (mg/Kg)	Sample	Position	Depth	Cl- (mg/Kg)
C-509	Bottom	1	1,370	C-594	Bottom	1	1,960
C-511	Bottom	1	803	C-597	Bottom	1	2,020
C-512	Bottom	1	617	C-598	Bottom	1	2,270
C-513	Bottom	1	880	C-599	Bottom	1	1,490
C-514	Bottom	1	899	C-600	Bottom	1	759
C-515	Bottom	1	3,580	C-601	Bottom	1	1,190
C-516	Bottom	1	1,540	C-603	Bottom	1	1,400
C-517	Bottom	1	2,410	C-604	Bottom	1	1,460
C-518	Bottom	1	1,760	C-605	Bottom	1	881
C-519	Bottom	1	1,280	C-607	Bottom	1	609
C-520	Bottom	1	894	C-616	Bottom	1	1,110
C-521	Bottom	1	1,220	C-617	Bottom	1	768
C-618	Bottom	1	1,260	C-630	Bottom	1	686
C-619	Bottom	1	1,700	C-631	Bottom	1	781
C-620	Bottom	1	1,140	C-632	Bottom	1	673
C-621	Bottom	1	1,370	--	--	--	--

Week 9: September 27, 2021, through October 1, 2021

Between September 28, 2021, and October 1, 2021, LAI Personnel collected 204 composite confirmation samples (C-634 through C-837) and six (6) samples (C-61, C-72, C-83, C-162, C-200, and C-201) from locations that were excavated further due to chloride concentrations being above NMOCD closure criteria. Xenco analyzed the samples and reported benzene, BTEX, and TPH below NMOCD closure criteria for Chloride was reported above NMOCD closure criteria for the following forty-seven (47) samples:

Sample ID	Position	Depth (ft)	Cl- (mg/Kg)	Sample ID	Position	Depth (ft)	Cl- (mg/Kg)
C-61	Bottom	3	1,440	C-709	Bottom	1.5	3,940
C-635	Bottom	1.5	2,190	C-710	Bottom	1.5	6,730
C-636	Bottom	1.5	758	C-711	Bottom	1.5	3,450
C-638	Bottom	1.5	652	C-712	Bottom	1.5	2,700
C-647	Bottom	1.5	827	C-713	Bottom	1.5	1,430
C-648	Bottom	1.5	3,300	C-714	Bottom	1.5	7,950
C-649	Bottom	1.5	662	C-715	Bottom	1.5	5,020
C-651	Bottom	1.5	647	C-716	Bottom	1.5	1,790
C-659	Bottom	1.5	1,440	C-721	Bottom	1.5	1,470
C-663	Bottom	1.5	4,030	C-722	Bottom	1.5	754
C-664	Bottom	1.5	2,630	C-725	Bottom	1.5	695
C-668	Bottom	1.5	958	C-726	Bottom	1.5	1,290
C-670	Bottom	1.5	1,220	C-727	Bottom	1.5	1,540
C-671	Bottom	1.5	658	C-730	Bottom	1.5	777
C-673	Bottom	1.5	723	C-734	Bottom	1.5	1,050
C-676	Bottom	1.5	1,390	C-739	Bottom	1.5	1,080
C-679	Bottom	1.5	632	C-741	Bottom	1.5	828
C-696	Bottom	1.5	642	C-743	Bottom	1.5	802

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Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)	Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)
C-703	Bottom	1.5	2,450	C-744	Bottom	1.5	655
C-704	Bottom	1.5	788	C-746	Bottom	1.5	601
C-705	Bottom	1.5	610	C-748	Bottom	1.5	620
C-706	Bottom	1.5	868	C-765	Bottom	1.5	632
C-707	Bottom	1.5	1,580	C-786	Bottom	1.5	1,210
C-708	Bottom	1.5	2,960	--	--	--	--

Week 10: October 4, 2021, through October 8, 2021

Between October 4-8, 2021, LAI Personnel collected 171 composite samples (C-838 through C-1008) from the bottom and sidewalls of the excavation. An additional six (6) samples (C-51, C-54, C-57, C-58, C-206, and 236) were collected from locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. Xenco analyzed the samples and reported benzene, BTEX, TPH below NMOCD closure criteria. Chloride was above NMOCD closure criteria in the following thirty-six (36) samples:

Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)	Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)
C-880	Bottom	2	648	C-951	Bottom	2	1510
C-883	Bottom	2	1,190	C-955	Bottom	2	602
C-885	Bottom	2	630	C-956	Bottom	2	664
C-891	Bottom	2	1,380	C-978	Bottom	1	1,340
C-894	Bottom	2	1,470	C-979	Bottom	1	1,210
C-895	Bottom	2	1,790	C-983	Bottom	1	1,070
C-896	Bottom	2	1,660	C-984	Bottom	1	1,090
C-897	Bottom	2	1,050	C-985	Bottom	1	1,810
C-898	Bottom	2	800	C-986	Bottom	1	643
C-899	Bottom	2	808	C-987	Bottom	1	1,090
C-903	Bottom	2	1,330	C-989	Bottom	1	662
C-908	Sidewall	0-2	1,620	C-990	Bottom	1	927
C-910	Sidewall	0-2	4,310	C-991	Bottom	1	1,150
C-919	Bottom	1	828	C-993	Bottom	1	685
C-926	Bottom	1	722	C-1000	Bottom	1	686
C-932	Bottom	1	626	C-1006	Bottom	1	1,340
C-941	Bottom	1	618	C-1007	Bottom	1	1,190
C-944	Bottom	1	745	C-1008	Bottom	1	1,930

Week 11: October 11, 2021, through October 15, 2021

Between October 12-15, 2021, LAI Personnel collected 188 composite samples (C-1009 through C-1196) from the bottom and sidewalls of the excavation. An additional nine (9) samples (C-40, C-41, C-44, C-46, C-47, C-48, C-55, C-56, and C-59) were collected from locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. Xenco analyzed the samples and reported benzene, BTEX, and TPH below NMOCD closure criteria. Chloride was reported above NMOCD closure criteria in the following fifty-eight (58) samples:

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Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)	Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)
C-1037	Bottom	1.5	1,400	C-1042	Bottom	1.5	2,140
C-1038	Bottom	1.5	3,440	C-1043	Bottom	1.5	3,250
C-1039	Bottom	1.5	2,410	C-1044	Bottom	1.5	5,040
C-1040	Bottom	1.5	1,930	C-1045	Bottom	1.5	2,770
C-1041	Bottom	1.5	4,720	C-1046	Bottom	1.5	9,860
C-1047	Bottom	1.5	3,530	C-1128	Bottom	1.5	3,110
C-1048	Bottom	1.5	776	C-1129	Bottom	1.5	6,090
C-1049	Bottom	1.5	1,620	C-1130	Bottom	1.5	3,450
C-1050	Bottom	1.5	1,210	C-1131	Bottom	1.5	8,620
C-1051	Bottom	1.5	3,840	C-1132	Bottom	1.5	4,320
C-1052	Bottom	1.5	3,540	C-1133	Bottom	1.5	1,880
C-1053	Bottom	1.5	4,850	C-1134	Bottom	1.5	2,460
C-1054	Bottom	1.5	2,870	C-1135	Bottom	1.5	2,500
C-1055	Bottom	1.5	1,610	C-1136	Bottom	1.5	1,630
C-1056	Bottom	1.5	2,280	C-1137	Bottom	1.5	794
C-1057	Bottom	1.5	3,990	C-1139	Bottom	1.5	1,160
C-1108	Bottom	1.5	819	C-1140	Bottom	1.5	646
C-1110	Bottom	1.5	855	C-1141	Bottom	1.5	1,210
C-1113	Bottom	1.5	1,280	C-1142	Bottom	1.5	672
C-1117	Bottom	1.5	1,350	C-1143	Bottom	1.5	915
C-1118	Bottom	1.5	924	C-1144	Bottom	1.5	787
C-1119	Bottom	1.5	2,730	C-1174	Bottom	1.5	670
C-1120	Bottom	1.5	3,000	C-1175	Bottom	1.5	1,430
C-1121	Bottom	1.5	8,720	C-1177	Bottom	1.5	777
C-1122	Bottom	1.5	4,600	C-1181	Bottom	1.5	633
C-1123	Bottom	1.5	2,660	C-1183	Bottom	1.5	1,110
C-1124	Bottom	1.5	1,880	C-1186	Bottom	1.5	795
C-1125	Bottom	1.5	2,320	C-1188	Bottom	1.5	980
C-1126	Bottom	1.5	5,770	C-1189	Bottom	1.5	3,130

Week 12: October 18, 2021, through October 22, 2021

Between October 18-21, 2021, LAI personnel collected forty-five (45) composite samples (C-1197 through C-1241) from the bottom and sidewalls of the excavation. An additional twenty-seven (27) samples were collected from locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled areas included C-473, C-481, C-486, C-487, C-489, C-492, C-495, C-500, C-501, C-505, C-507, C-509, C-511, C-512, C-517, C-518, C-521, C-522, C-526, C-528, C-529, C-531, C-538, C-635, C-636, C-638, and C-648.

Xenco analyzed the samples, and reported benzene and BTEX below the NMOCD closure criteria. TPH was reported above the NMOCD closure criteria in two (2) samples, C-1198 (163 mg/Kg) and C-1212 (151 mg/Kg). Chloride was reported above the NMOCD closure criteria in the following nineteen (19) samples:

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Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)	Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)
C-495	Bottom	2.5	659	C-1227	Bottom	1.5	1,340
C-501	Bottom	2.5	600	C-1228	Bottom	1.5	717
C-511	Bottom	2.5	621	C-1229	Bottom	1.5	967
C-521	Bottom	2.5	904	C-1230	Bottom	1.5	2,630
C-1208	Bottom	1.5	851	C-1231	Bottom	1.5	653
C-1209	Bottom	1.5	1,000	C-1232	Bottom	1.5	625
C-1210	Bottom	1.5	711	C-1233	Bottom	1.5	1,070
C-1223	Bottom	1.5	826	C-1235	Bottom	1.5	848
C-1224	Bottom	1.5	867	C-1236	Bottom	1.5	1,290
C-1225	Bottom	1.5	1,110	--	--	--	--

Week 13: October 25, 2021, through October 29, 2021

On October 27, 2021, LAI personnel collected thirty-six (36) composite samples from locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled areas included: C-316, C-323, C-326, C-344, C-347, C-361, C-380, C-381, C-470, C-471, C-550, C-554, C-561, C-562, C-565, C-566, C-567, C-571, C-572, C-579, C-583, C-586, C-589, C-590, C-597, C-601, C-604, C-605, C-622, C-630, C-631, C-632, C-633, C-919, C-951, and C-955. Xenco analyzed the samples and reported benzene, BTEX, and TPH below the NMOCD closure criteria in all samples. Chloride was reported above NMOCD closure criteria in the following fifteen (15) samples:

Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)	Sample ID	Position	Depth (ft)	Cl ⁻ (mg/Kg)
326	Sidewall	0-4.1	633	597	Bottom	2.5	776
344	Bottom	2.5	662	604	Bottom	2.5	736
561	Bottom	2.5	635	605	Bottom	2.5	958
562	Bottom	2.5	761	622	Bottom	2.5	721
566	Bottom	2.5	746	630	Bottom	2.5	890
583	Bottom	2.5	923	631	Bottom	2.5	651
586	Bottom	2.5	629	632	Bottom	2.5	734
590	Bottom	2.5	750	--	--	--	--

Week 14: November 1, 2021, through November 5, 2021

Between November 2-5, 2021, LAI personnel collected composite samples from eighteen (18) locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled areas included C-670, C-671, C-673, C-679, C-696, C-725, C-726, C-734, C-739, C-741, C-743, C-744, C-746, C-790, C-880, C-895, C-896, and C-903. Xenco analyzed the samples and reported benzene, BTEX and TPH below NMOCD closure criteria. Chloride was above NMOCD closure criteria in two (2) samples, C-746 (617 mg/Kg) and C-896 (651 mg/Kg).

Week 15: November 8, 2021, through November 12, 2021

On November 9 and 11, 2021, LAI personnel collected composite samples from twenty-seven (27) locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled areas included C-703, C-704, C-705, C-706,

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C-707, C-708, C-709, C-710, C-711, C-712, C-713, C-714, C-715, C-716, C-721, C-722, C-748, C-883, C-885, C-891, C-894, C-897, C-898, C-908, C-910, C-1049, and C-1051. Xenco analyzed the samples and reported benzene, BTEX, and chloride below NMOCD closure criteria. TPH was reported above NMOCD closure criteria in one (1) sample, C-1049 (177 mg/Kg).

Week 16: November 15, 2021, through November 19, 2021

Between November 15-18, 2021, LAI personnel collected forty-seven (47) composite confirmation samples (C-1242 through C-1288) from the bottom and sidewalls of the excavation. An additional twenty-five (25) samples were collected from locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled areas included C-1037, C-1038, C-1039, C-1040, C-1041, C-1042, C-1043, C-1044, C-1045, C-1046, C-1047, C-1048, C-1050, C-1052, C-1053, C-1054, C-1055, C-1056, C-1057, C-1122, C-1128, C-1139, C-1174, C-1175, and C-1188. Xenco analyzed the samples and reported benzene, BTEX, and TPH concentrations below NMOCD closure criteria. Chloride was above NMOCD closure criteria in the following eighteen (18) samples:

Sample ID	Position	Depth (ft)	Cl- (mg/Kg)	Sample ID	Position	Depth (ft)	Cl- (mg/Kg)
C-1139	Bottom	2.5	688	C-1254	Sidewall	0-4.1	1200
C-1175	Bottom	2.5	758	C-1255	Sidewall	0-4.1	3440
C-1243	Sidewall	0-1.5	698	C-1256	Sidewall	0-4.1	1750
C-1246	Sidewall	0-1	882	C-1257	Sidewall	0-4.1	2890
C-1247	Sidewall	0-4.1	1660	C-1260	Sidewall	0-4.1	1410
C-1250	Sidewall	0-4.1	2100	C-1261	Sidewall	0-1	2710
C-1251	Sidewall	0-4.1	2380	C-1270	Sidewall	0-1.5	641
C-1252	Sidewall	0-4.1	1470	C-1271	Sidewall	0-1.5	1750
C-1253	Sidewall	0-4.1	695	C-1275	Sidewall	0-1.5	5130

Week 17: November 22, 2021, through November 26, 2021

Between November 22-24, 2021, LAI personnel collected composite samples from sixteen (16) locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled areas included C-482, C-483, C-484, C-494, C-495, C-496, C-513, C-514, C-515, C-516, C-519, C-520, C-521, C-746, C-786, and C-896. Xenco analyzed the samples and reported benzene, BTEX, and TPH in all samples below NMOCD closure criteria. Chloride was above NMOCD closure criteria in two (2) samples C-494 (1,250 mg/Kg) and C-496 (667 mg/Kg).

Week 18: November 29, 2021, through December 3, 2021

Between November 29, 2021, and December 3, 2021, LAI personnel collected composite samples from thirty-eight (38) locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled areas included: C-485, C-488, C-490, C-497, C-499, C-501, C-502, C-503, C-504, C-508, C-511, C-524, C-525, C-527, C-1117, C-1118, C-1119, C-1120, C-1121, C-1123, C-1124, C-1125, C-1126, C-1127, C-1129, C-1130, C-1131, C-1132, C-1133, C-1140, C-1141, C-1142, C-1143, C-1144, C-1177, C-1181, C-1183, and C-1186. Xenco analyzed the samples and reported benzene, BTEX, and TPH below NMOCD closure criteria. Chloride was above NMOCD closure criteria in three (3) samples C-503 (738 mg/Kg), C-524 (1,000 mg/Kg), and C-1118 (868 mg/Kg).

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Week 19: December 6, 2021, through December 10, 2021

Between December 7-10, 2021, LAI personnel collected composite samples from twenty-seven (26) locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled areas included C-344, C-364, C-379, C-382, C-471, C-562, C-566, C-583, C-592, C-594, C-597, C-598, C-599, C-600, C-603, C-604, C-607, C-617, C-618, C-619, C-620, C-621, C-630, C-631, C-632, and C-899. Xenco analyzed the samples and reported benzene, BTEX, and TPH below NMOCD closure criteria. Chloride was above NMOCD closure criteria in one (1) sample C-592 (683 mg/Kg).

Week 20: December 13, 2021, through December 17, 2021

Between December 13-17, 2021, LAI personnel collected composite samples from thirty (30) locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled areas included C-378, C-491, C-494, C-503, C-515, C-524, C-584, C-587, C-588, C-589, C-590, C-593, C-605, C-616, C-622, C-647, C-649, C-659, C-663, C-664, C-668, C-765, C-979, C-984, C-985, C-986, C-987, C-989, C-990, and C-1049. Xenco analyzed the samples for BTEX, TPH and chloride, and reported all parameters below NMOCD closure criteria.

Week 21: December 20, 2021, through December 24, 2021

On December 21 and 22, 2021, LAI personnel collected one (1) composite sample (C-1246-2) from the sidewall of the excavation. An additional five (5) composite samples (C-61, C-993, C-1252, C-1253, and C-1254) were collected from locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. Xenco analyzed the samples for BTEX, TPH, and chloride, and reported all parameters below NMOCD closure criteria.

Week 22: December 27, 2021, through December 31, 2021

Between December 27-30, LAI personnel collected nine (9) composite samples (C-153, C-183, C-238, C-342, C-493, C-496, C-651, C-727, and C-730) from locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. Xenco analyzed the samples and reported benzene, BTEX, TPH and chloride below NMOCD closure criteria.

Week 23: January 3, 2022, through January 7, 2022

Between January 3-7, 2022, LAI personnel collected six (6) composite confirmation samples (S-1289 through 1294) from the bottom of the excavation. An additional nine (9) samples (C-983, C-991, C-1000, C-1246, C-1250, C-1251, C-1255, C-1256, C-1257) were collected from sample locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. Xenco analyzed the samples and reported benzene, BTEX, TPH, and chloride below NMOCD closure criteria.

Week 24: January 10, 2022, through January 14, 2022

Between January 10-14, 2022, LAI personnel collected one (1) composite confirmation sample (C-1275-2) from the sidewall of the excavation. An additional twenty-eight (28) samples were collected from sample locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled areas include C-301, C-326, C-331, C-926, C-932, C-941, C-944, C-956, C-978, C-1113, C-1118, C-1134, C-1135, C-1136, C-1137, C-1139, C-1175, C-

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1189, C-1224, C-1225, C-1227, C-1228, C-1229, C-1235, C-1236, C-1270, C-1271, and C-1275. Xenco analyzed the samples and reported benzene, BTEX, TPH, and chloride below NMOCD closure criteria.

Week 25: January 17, 2022, through January 21, 2022

Between January 17-21, 2022, LAI personnel collected composite samples from eighteen (18) locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled areas included C-1006, C-1007, C-1008, C-1108, C-1110, C-1198, C-1208, C-1209, C-1210, C-1212, C-1223, C-1230, C-1231, C-1232, C-1233, C-1247, C-1260, and C-1261. Xenco analyzed the samples and reported benzene, BTEX, TPH below NMOCD closure criteria. Chloride was report above NMOCD closure criteria two (2) samples, C-1008 (3,060 mg/Kg) and C-1212 (779 mg/Kg).

Week 26: January 24, 2022, through January 28, 2022

Between January 24-28, 2022, LAI personnel collected nine (9) samples (C-561, C-576, C-578, C-580, C-586, C-592, C-676, C-1212, and C-1243) from sample locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. Xenco analyzed the samples and reported benzene, BTEX, TPH, and chloride below NMOCD closure criteria.

Week 27: February 15, 2022

On February 15, 2022, LAI personnel collected one (1) composite sample (C-1008) from the location that was further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. Xenco analyzed the sample and reported benzene, BTEX, TPH, and chloride closure criteria.

4.0 CONCLUSION

Laboratory analysis demonstrates that benzene, BTEX, TPH, and chloride were remediated below the NMOCD closure criteria of 10 mg/Kg, 50 mg/Kg, 2,500 mg/Kg, and 10,000 mg/Kg (Table 1, 19.15.29 NMAC) in all confirmation soil samples below four (4) feet bgs for groundwater between 50 and 100 feet bgs. Confirmation samples collected above four (4) feet bgs were remediated below the NMOCD closure criteria of 10 mg/Kg, 50 mg/Kg, 100 mg/Kg, and 600 mg/Kg for benzene, BTEX, TPH, and chloride, respectively. Figure 4a presents the excavation areas and confirmation sample locations in spill area A and B. Figure 4b presents the excavation areas and confirmation soil samples in Spill Area C. Figure 4c presents the excavation areas and confirmation soil samples in Spill Areas D and E. Table 2 presents the confirmation composite sample laboratory analytical data summary. Appendix E presents the laboratory reports.

On September 24, 2021, and January 24, 2022, LAI personnel collected 40 composite samples of topsoil backfill from a pit located in Unit A, Section 10, Township 19 South, and Range 29 East, in Eddy County, New Mexico. The geodetic position for the topsoil borrow pit is 32.68162° North and -104.05569° West. Caliche backfill composite samples were collected by LAI personnel on October 8, 2021, and January 28, 2022, from a pit located in Units A and H, Section 11, Township 19 South, and Range 28 East, in Eddy County, New Mexico. The geodetic position for the caliche borrow pit is 32.67903° North and -104.14955° West. Xenco analyzed the samples and reported TPH below the analytical method reporting limits. The maximum concentrations for benzene and BTEX were 0.00534 mg/Kg (C-8). The maximum chloride

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concentration in the backfill composite samples was 187 mg/Kg, and below the maximum concentration (600 mg/Kg) allowed under 19.15.13D(1). Table 3 presents the analytical data of the backfill material. Appendix E presents the laboratory reports.

Between November 25, 2022, and April 25, 2022, P2 backfilled the excavation to approximately 2 feet bgs with caliche and to surface with topsoil from the borrow area. The surface was contoured to resemble the surface prior to excavation. On April 26, 2022, and April 27, 2022, LAI personnel seeded the remediation area with BLM Mix #3. Appendix F presents photographic documentation of remediation activities.

5.0 CLOSURE REQUEST

Select requests closure for this release.

Tables

Table 1
Soil Sample Analytical Data Summary
Select Energy - Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
S-1	0.5 ¹	05/25/2021	In-Situ	<0.00119	<0.00238	<29.8	<29.8	<29.8	<29.8	11,000
	1 ¹	05/25/2021	In-Situ	<0.00114	<0.00228	<28.4	<28.4	<28.4	<28.4	1,570
	1 ²	07/16/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	373
S-2	0.5 ¹	05/25/2021	In-Situ	<0.00116	<0.00232	<29.1	<29.1	<29.1	<29.1	6,550
	1 ¹	05/25/2021	In-Situ	<0.00114	<0.00228	<28.4	<28.4	<28.4	<28.4	1,910
	1 ²	07/16/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	62.7
S-3	0.5 ¹	05/25/2021	In-Situ	<0.00108	<0.00216	<26.9	<26.9	<26.9	<26.9	1,750
	1 ¹	05/25/2021	In-Situ	<0.00106	<0.00112	<26.6	<26.6	<26.6	<26.6	523
S-4	0.5 ¹	05/25/2021	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	4,830
	1 ¹	05/25/2021	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	970
	1 ²	07/15/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	2,520
	3 ²	07/15/2021	In-Situ	--	--	--	--	--	--	185
S-5	0.5 ¹	05/25/2021	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	9,400
	1 ¹	05/25/2021	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	689
	1 ²	07/15/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	2,610
	3 ²	07/15/2021	In-Situ	--	--	--	--	--	--	8.35
S-6	0.5 ¹	05/25/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	4,150
	1 ¹	05/25/2021	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	1,950
	1 ²	07/15/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	7.62

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32.66551° North and -104.14693° West

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Remediation Level:				10	50	100/2,500				600/10,000
S-7	0.5 ¹	05/25/2021	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	7,390
	1 ¹	05/25/2021	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	6,420
	1 ²	07/15/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	870
	3 ²	07/15/2021	In-Situ	--	--	--	--	--	--	2,900
	5 ²	07/15/2021	In-Situ	--	--	--	--	--	--	551
S-8	0.5 ¹	05/25/2021	In-Situ	<0.00116	<0.00233	<29.1	<29.1	<29.1	<29.1	668
	1 ¹	05/25/2021	In-Situ	<0.00116	<0.00233	<29.1	<29.1	<29.1	<29.1	1,450
	1 ²	07/15/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	524
S-9	0.5 ¹	05/25/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	334
	1 ¹	05/25/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	858
	1 ²	07/15/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	192
S-10	0.5 ¹	05/26/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	3,460
	1 ¹	05/26/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	1,330
	1 ²	07/15/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	8.41
S-11	0.5 ¹	05/26/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	7,550
	1 ¹	05/26/2021	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	2,960
	1 ²	07/09/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	23.3
S-12	0.5 ¹	05/26/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	6,210
	1 ¹	05/26/2021	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	6,450

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Remediation Level:				10	50	100/2,500				600/10,000
	1 ²	07/09/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	192
S-13	0.5 ¹	05/26/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	7,340
	1 ¹	05/26/2021	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	9,130
	1 ²	07/15/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	935
	3 ²	07/15/2021	In-Situ	--	--	--	--	--	--	761
	5 ²	07/15/2021	In-Situ	--	--	--	--	--	--	719
	10 ²	07/15/2021	In-Situ	--	--	--	--	--	--	49.8
S-14	0.5 ¹	05/26/2021	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	110
	1 ¹	05/26/2021	In-Situ	<0.00101	<0.00101	<25.3	<25.3	<25.3	<25.3	<1.01
S-15	0.5 ¹	05/26/2021	In-Situ	<0.00109	<0.00109	<27.2	<27.2	<27.2	<27.2	2,910
	1 ¹	05/26/2021	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	1,060
	1 ²	07/09/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	889
	3 ²	07/09/2021	In-Situ	--	--	--	--	--	--	288
S-16	0.5 ¹	05/26/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	7,230
	1 ²	07/09/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	64.4
S-17	0.5 ¹	05/26/2021	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	9,000
	1 ¹	05/26/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	5,730
	1 ²	07/09/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	120

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Remediation Level:				10	50	100/2,500				600/10,000
S-18	0.5 ¹	05/26/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	5,730
	1 ²	07/09/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	535
S-19	0.5 ¹	05/26/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	5,010
	1 ²	07/08/2021	In-Situ	0.00343	<0.00398	<50.0	<50.0	<50.0	<50.0	2,310
	3 ²	07/08/2021	In-Situ	--	--	--	--	--	--	1,580
	5 ²	07/08/2021	In-Situ	--	--	--	--	--	--	415
S-20	0.5 ¹	05/26/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	4,670
	1 ¹	05/26/2021	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	2,260
	1 ²	07/08/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1,770
	3 ²	07/08/2021	In-Situ	--	--	--	--	--	--	1,000
	5 ²	07/08/2021	In-Situ	--	--	--	--	--	--	1,200
	8 ²	07/08/2021	In-Situ	--	--	--	--	--	--	1,200
	10 ²	11/30/2021	In-Situ	--	--	--	--	--	--	125
	15 ²	11/30/2021	In-Situ	--	--	--	--	--	--	456
	20 ²	11/30/2021	In-Situ	--	--	--	--	--	--	943
	25 ²	11/30/2021	In-Situ	--	--	--	--	--	--	252
	30 ²	11/30/2021	In-Situ	--	--	--	--	--	--	218
S-21	0.5 ¹	05/26/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	2,040
	1 ²	07/08/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	1,490
	3 ²	07/08/2021	In-Situ	--	--	--	--	--	--	919
	5 ²	07/08/2021	In-Situ	--	--	--	--	--	--	950

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Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
	10 ²	07/08/2021	In-Situ	--	--	--	--	--	--	1,210
	15 ²	11/30/2021	In-Situ	--	--	--	--	--	--	54
	20 ²	11/30/2021	In-Situ	--	--	--	--	--	--	462
	25 ²	11/30/2021	In-Situ	--	--	--	--	--	--	659
	30 ²	11/30/2021	In-Situ	--	--	--	--	--	--	159
S-22	0.5 ¹	05/26/2021	In-Situ	<0.00112	<0.00225	<28.1	43.2	<28.1	43.2	9,820
	1 ²	07/08/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	1,470
	3 ²	07/08/2021	In-Situ	--	--	--	--	--	--	572
S-23	0.5 ¹	05/26/2021	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	6,350
	1 ²	07/08/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,320
	3 ²	07/08/2021	In-Situ	--	--	--	--	--	--	1,810
	5 ²	07/08/2021	In-Situ	--	--	--	--	--	--	974
	10 ²	07/08/2021	In-Situ	--	--	--	--	--	--	655
	15 ²	11/30/2021	In-Situ	--	--	--	--	--	--	418
	20 ²	11/30/2021	In-Situ	--	--	--	--	--	--	59
S-24	0.5 ¹	05/26/2021	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	9,720
	1 ¹	05/26/2021	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	9,750
	1 ²	07/08/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	151
S-25	0.5 ¹	05/26/2021	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	9,730
	1 ²	07/08/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	947

Table 1
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Select Energy - Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
	3 ²	07/08/2021	In-Situ	--	--	--	--	--	--	40.7
S-26	0.5 ¹	05/26/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	7,310
	1 ²	07/08/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1,690
	3 ²	07/08/2021	In-Situ	--	--	--	--	--	--	163
S-27	0.5 ¹	05/26/2021	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	13,100
	1 ²	07/08/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,490
	3 ²	07/08/2021	In-Situ	--	--	--	--	--	--	521
S-28	0.5 ¹	05/26/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	12,100
	1 ¹	05/26/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	9,820
	1 ²	07/01/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	11.1
S-29	0.5 ¹	05/26/2021	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	4,530
	1 ¹	05/26/2021	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	5,000
	1 ²	07/01/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	2,620
	3 ²	07/01/2021	In-Situ	--	--	--	--	--	--	77.9
S-30	0.5 ¹	05/26/2021	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	5,210
	1 ¹	05/26/2021	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	5,960
	1 ²	07/01/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	7.81
S-31	0.5 ¹	05/26/2021	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	5,960

Table 1
Soil Sample Analytical Data Summary
Select Energy - Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
	1 ¹	05/26/2021	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	8,500
	1 ²	07/01/2021	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	8.96
S-32	0.5 ¹	05/26/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	11,100
	1 ¹	05/26/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	3,290
	1 ²	07/01/2021	In-Situ	<0.00201	0.00442	<50.0	<50.0	<50.0	<50.0	478
S-33	0.5 ¹	05/26/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	7,050
	1 ¹	05/26/2021	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	6,210
	1 ²	07/01/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	1,670
	3 ²	07/01/2021	In-Situ	--	--	--	--	--	--	3,680
	5 ²	07/01/2021	In-Situ	--	--	--	--	--	--	17.3
S-34	0.5 ¹	05/26/2021	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	4,080
	1 ²	07/01/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	11.8
S-35	0.5 ¹	05/26/2021	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	17.0
	1 ¹	05/26/2021	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	12
S-36	0.5 ¹	05/26/2021	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	13.3
	1 ¹	05/26/2021	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	9.72
S-37	0.5 ¹	05/26/2021	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	10,100
	1 ¹	05/26/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	3,440

Table 1
Soil Sample Analytical Data Summary
Select Energy - Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
	1 ²	07/01/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	5.48
S-38	0.5 ¹	05/26/2021	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	9.32
S-39	0.5 ¹	05/26/2021	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	12,800
	1 ¹	05/26/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	6,380
	1 ²	07/01/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	87.5
S-40	0.5 ¹	05/26/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	19,300
	1 ²	07/01/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	4,400
	3 ²	07/01/2021	In-Situ	--	--	--	--	--	--	483
S-41	0.5 ¹	05/26/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	9,290
	1 ¹	05/26/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	5,830
	1 ²	06/29/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	160
S-42	0.5 ¹	05/26/2021	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	27.4
	1 ¹	05/26/2021	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	30
S-43	0.5 ¹	05/26/2021	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	7,060
	1 ¹	05/26/2021	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	741
	1 ²	07/01/2021	In-Situ	0.00362	<0.00398	<50.0	<50.0	<50.0	<50.0	17.5
S-44	0.5 ¹	05/26/2021	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	18.6

Table 1
Soil Sample Analytical Data Summary
Select Energy - Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
	1 ¹	05/26/2021	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	40.2
S-45	0.5 ¹	05/26/2021	In-Situ	<0.00115	<0.00230	<28.7	<28.7	<28.7	<28.7	13,600
	1 ²	06/29/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	278
S-46	0.5 ¹	05/26/2021	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	11,100
	1 ²	06/30/2021	In-Situ	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	217
S-47	0.5 ¹	05/26/2021	In-Situ	<0.00105	<0.00211	<26.3	38.2	<26.3	38.2	9,400
	1 ²	06/30/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	127
S-48	0.5 ¹	05/26/2021	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	52.9
S-49	0.5 ¹	05/26/2021	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	8,530
	1 ²	06/30/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	269
S-50	0.5 ¹	05/26/2021	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	8,780
	1 ²	06/30/2021	In-Situ	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	1,180
	3 ²	06/30/2021	In-Situ	--	--	--	--	--	--	87.8
S-51	0.5 ¹	05/26/2021	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	7,240
	1 ²	06/30/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	147
S-52	0.5 ¹	05/26/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	9,920

Table 1
Soil Sample Analytical Data Summary
Select Energy - Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
	1 ²	7/1/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	932
	3 ²	07/01/2021	In-Situ	--	--	--	--	--	--	218
S-53	0.5 ¹	05/26/2021	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	8,280
	1 ²	06/30/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	132
S-54	0.5 ¹	05/27/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	10,800
	1 ¹	05/27/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	8,540
	1 ²	07/02/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	1,710
	3 ²	07/02/2021	In-Situ	--	--	--	--	--	--	121
S-55	0.5 ¹	05/27/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	14,700
	1 ¹	05/27/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	4,320
	1 ²	07/02/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	804
	3 ²	07/02/2021	In-Situ	--	--	--	--	--	--	27.9
S-56	0.5 ¹	05/27/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	11,400
	1 ¹	05/27/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	6,070
	1 ²	07/07/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	168
S-57	0.5 ¹	05/27/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	11,600
	1 ¹	05/27/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	7,920
	1 ²	07/07/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	74.7

Table 1
Soil Sample Analytical Data Summary
Select Energy - Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
S-58	0.5 ¹	05/27/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	9,190
	1 ¹	05/27/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	8,810
	1 ²	07/07/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	1,710
	3 ²	07/07/2021	In-Situ	--	--	--	--	--	--	2,150
	5 ²	07/07/2021	In-Situ	--	--	--	--	--	--	42.6
S-59	0.5 ¹	05/27/2021	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	17,700
	1 ¹	05/27/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	8,390
	1 ²	07/07/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	6,500
	3 ²	07/07/2021	In-Situ	--	--	--	--	--	--	1,030
	5 ²	07/07/2021	In-Situ	--	--	--	--	--	--	15.7
S-60	0.5 ¹	05/27/2021	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	12,300
	1 ¹	05/27/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	6,180
	1 ²	07/07/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	1,690
	3 ²	07/07/2021	In-Situ	--	--	--	--	--	--	6.35
S-61	0.5 ¹	05/27/2021	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	1,610
	1 ¹	05/27/2021	In-Situ	<0.00104	<0.00208	<26.0	27.2	<26.0	27.2	4,370
	1 ²	07/07/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	54.3
S-62	0.5 ¹	05/27/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	10,300
	1 ¹	05/27/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	7,700
	1 ²	07/02/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	285

Table 1
Soil Sample Analytical Data Summary
Select Energy - Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
S-63	0.5 ¹	05/27/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	8,120
	1 ¹	05/27/2021	In-Situ	<0.00120	<0.00241	<30.1	<30.1	<30.1	<30.1	799
	1 ²	07/07/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	358
S-64	0.5 ¹	05/27/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	19,700
	1 ¹	05/27/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	4,660
	1 ²	07/07/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	73.5
S-65	0.5 ¹	05/27/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	6,160
	1 ¹	05/27/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	8,210
	1 ²	07/07/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	7.14
S-66	0.5 ¹	05/27/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	8,290
	1 ²	07/07/2021	In-Situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	788
	3 ²	07/07/2021	In-Situ	--	--	--	--	--	--	17.9
S-67	0.5 ¹	05/27/2021	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	54.1
	1 ¹	05/27/2021	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	47.5
S-68	0.5 ¹	05/27/2021	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	6,460
	1 ¹	05/27/2021	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	3,890
	1 ²	07/07/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	28.3

Table 1
Soil Sample Analytical Data Summary
Select Energy - Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
S-69	0.5 ¹	05/27/2021	In-Situ	<0.00127	<0.00253	<31.6	<31.6	<31.6	<31.6	6,470
	1 ¹	05/27/2021	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	2,260
	1 ²	07/07/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	22.8
D-1	0.5 ¹	05/26/2021	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	42.5
D-2	0.5 ¹	05/26/2021	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	19.8
	1 ¹	05/26/2021	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	18.9
D-3	0.5 ¹	05/26/2021	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	18.8
D-4	0.5 ¹	05/26/2021	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	32.8

Notes:

¹ : Analysis performed by Permian Basin Environmental Lab (PBEL) in Midland, Texas using EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride).

² : Analysis performed by Xenco Laboratories (Xenco) in Midland, Texas using EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride).

mg/Kg: milligrams per kilogram; equivalent to parts per million (ppm)

<: below analytical reporting limit

Bold and Highlighted exceeds NMOCD delineation limits

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-1	Bottom	4.1	08/06/2021	In-Situ	0.114	0.118	<50.0	<50.0	<50.0	<50.0	236
C-2	Bottom	4.1	08/06/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	81.4
C-3	Bottom	4.1	08/06/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	111
C-4	Bottom	4.1	08/06/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	175
C-5	Bottom	4.1	08/06/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	594
C-6	Bottom	4.1	08/06/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	678
C-7	Bottom	4.1	08/06/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	408
C-8	Bottom	4.1	08/06/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	45.6
C-9	Bottom	4.1	08/06/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	50.5
C-10	Bottom	4.1	08/06/2021	In-Situ	<0.00202	0.00546	<49.8	<49.8	<49.8	<49.8	191
C-11	Bottom	4.1	08/06/2021	In-Situ	0.00347	<0.00398	<50.0	<50.0	<50.0	<50.0	187
C-12	Bottom	4.1	08/06/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	100
C-13	Bottom	4.1	08/06/2021	In-Situ	0.00337	<0.00402	<49.9	<49.9	<49.9	<49.9	119
C-14	Bottom	4.1	08/06/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	103
C-15	Bottom	4.1	08/06/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	149
C-16	Bottom	4.1	08/06/2021	In-Situ	0.00339	0.0063	<50.0	<50.0	<50.0	<50.0	315
C-17	Bottom	4.1	08/06/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	260
C-18	Bottom	4.1	08/06/2021	In-Situ	0.00760	0.00760	<49.9	<49.9	<49.9	<49.9	95.3
C-19	Bottom	4.1	08/06/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	213
C-20	Bottom	4.1	08/06/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	375
C-21	Bottom	4.1	08/06/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	639
C-22	Bottom	4.1	08/06/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	480
C-23	Bottom	4.1	08/06/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	118
C-24	Bottom	4.1	08/06/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	151
C-25	Bottom	4.1	08/06/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	167
C-26	Bottom	4.1	08/06/2021	In-Situ	0.00486	0.00486	<49.9	<49.9	<49.9	<49.9	401
C-27	Bottom	4.1	08/06/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	164
C-28	Bottom	4.1	08/06/2021	In-Situ	0.00440	0.00440	<49.8	<49.8	<49.8	<49.8	201
C-29	Bottom	4.1	08/06/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	589
C-30	Sidewall	0-4.1	08/06/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	55.5

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-31	Sidewall	0-4.1	08/06/2021	In-Situ	0.00479	0.00479	<50.0	<50.0	<50.0	<50.0	121
C-32	Sidewall	0-4.1	08/06/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	106
C-33	Sidewall	0-4.1	08/06/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	29.2
C-34	Sidewall	0-4.1	08/06/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	53.5
C-35	Sidewall	0-4.1	08/06/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	27.7
C-36	Sidewall	0-4.1	08/06/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	187
C-37	Sidewall	0-4.1	08/06/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	22.6
C-38	Sidewall	0-4.1	08/06/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	185
C-39	Bottom	1	08/11/2021	In-Situ	0.00327	<0.00398	<50.0	<50.0	<50.0	<50.0	51.2
C-40	Bottom	1	08/11/2021	Excavated	0.00315	0.00591	<49.9	<49.9	<49.9	<49.9	1350
		4.1	10/15/2021	In-Situ	<0.00198	0.00884	<49.8	81.9	<49.8	81.9	377
C-41	Bottom	1	08/11/2021	Excavated	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	1200
		4.1	10/15/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	115
C-42	Bottom	1	08/11/2021	In-Situ	<0.00200	0.00614	<49.9	<49.9	<49.9	<49.9	92.7
C-43	Bottom	1	08/11/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	205
C-44	Bottom	1	08/11/2021	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	3730
		4.1	10/15/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	699
C-45	Bottom	1	08/11/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	537
C-46	Bottom	1	08/11/2021	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	3610
		4.1	10/15/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	251
C-47	Bottom	1	08/11/2021	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	724
		4.1	10/15/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	49.8
C-48	Bottom	1	08/11/2021	Excavated	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	1060
		4.1	10/15/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	223
C-49	Bottom	1	08/11/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	351
C-50	Bottom	1	08/11/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	128
C-51	Bottom	1	08/11/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	606
		3	10/07/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	68.3
C-52	Bottom	1	08/11/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	388
C-53	Bottom	1	08/11/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	27.2

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-54	Bottom	1	08/11/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1930
		3	10/07/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	255
C-55	Bottom	1	08/11/2021	Excavated	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	2000
		4.1	10/15/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	1200
C-56	Bottom	1	08/11/2021	Excavated	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	2430
		4.1	10/15/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	707
C-57	Bottom	1	08/11/2021	Excavated	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	2280
		3	10/07/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	255
C-58	Bottom	1	08/12/2021	Excavated	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	2120
		3	10/07/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	183
C-59	Bottom	1	08/12/2021	Excavated	<0.00198	<0.00397	<50.0	62.9	<50.0	62.9	1080
		4.1	10/15/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	154
C-60	Bottom	1	08/12/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	130
C-61	Bottom	1	08/12/2021	Excavated	<0.00201	<0.00402	<49.8	55.3	<49.8	55.3	1870
		3	09/29/2021	Excavated	<0.00202	<0.00200	<49.9	<49.9	<49.9	<50.0	1440
		4.1	12/21/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	88.7
C-62	Bottom	1	08/12/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	32
C-63	Bottom	1	08/12/2021	In-Situ	<0.00200	<0.00400	<49.8	73.9	<49.8	73.9	50.9
C-64	Bottom	1	08/12/2021	In-Situ	0.00274	<0.00396	<49.9	<49.9	<49.9	<49.9	65.7
C-65	Bottom	1	08/12/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	148
C-66	Bottom	1	08/12/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	27.1
C-67	Bottom	1	08/12/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	285
C-68	Bottom	1	08/12/2021	In-Situ	0.00357	<0.00404	<49.8	<49.8	<49.8	<49.8	338
C-69	Bottom	1	08/12/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	424
C-70	Bottom	1	08/12/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	236
C-71	Bottom	1	08/12/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	302
C-72	Bottom	1	08/12/2021	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	1420
		4.1	09/29/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	1450
C-73	Bottom	1	08/12/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	280
C-74	Bottom	1	08/12/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	220

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RAL:					10	50	100/2,500			600/10,000	
C-75	Bottom	1	08/12/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	41.6
C-76	Bottom	1	08/19/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	44.3
C-77	Bottom	1	08/16/2021	In-Situ	0.00915	0.00915	<49.9	<49.9	<49.9	<49.9	22.6
C-78	Bottom	1	08/16/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	23.8
C-79	Bottom	1	08/16/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	23.8
C-80	Bottom	1	08/16/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	28.2
C-81	Bottom	1	08/16/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	25.1
C-82	Bottom	1	08/16/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	23.8
C-83	Bottom	1	08/16/2021	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	1070
		4.1	09/29/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	221
C-84	Bottom	1	08/16/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	38
C-85	Bottom	1	08/16/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	25
C-86	Bottom	1	08/16/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	34.4
C-87	Bottom	1	08/16/2021	In-Situ	0.00363	0.0142	<50.0	<50.0	<50.0	<50.0	21.3
C-88	Bottom	1	08/16/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	22.8
C-89	Bottom	1	08/16/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<4.99
C-90	Bottom	1	08/16/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<4.95
C-91	Bottom	1	08/16/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	20.7
C-92	Bottom	1	08/16/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<4.98
C-93	Bottom	1	08/16/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<4.97
C-94	Bottom	1	08/16/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<4.95
C-95	Bottom	1	08/16/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<5.04
C-96	Bottom	1	08/16/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<4.98
C-97	Bottom	1	08/16/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	5.17
C-98	Bottom	1	08/16/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<5.00
C-99	Bottom	1	08/16/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<5.02
C-100	Bottom	1	08/16/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<4.98
C-101	Bottom	1	08/16/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<5.00
C-102	Bottom	1	08/16/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<4.99
C-103	Bottom	1	08/16/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<4.95

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Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-105	Bottom	1	08/16/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<5.04
C-106	Bottom	1	08/20/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	60.5
C-107	Bottom	1	08/20/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<5.04
C-108	Bottom	1	08/20/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	23.3
C-109	Bottom	1	08/20/2021	In-Situ	<0.001099	<0.00398	<49.9	<49.9	<49.9	<49.9	<4.95
C-110	Bottom	1	08/20/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<5.00
C-111	Bottom	1	08/20/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<5.01
C-112	Bottom	1	08/20/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	8.27
C-113	Bottom	1	08/20/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	5
C-114	Bottom	1	08/20/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<5.00
C-115	Bottom	1	08/20/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<5.00
C-116	Bottom	1	08/20/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<4.98
C-117	Bottom	1	08/25/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	55.3
C-118	Bottom	1	08/25/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	15.2
C-119	Bottom	1	08/25/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	50.5
C-120	Bottom	1	08/25/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	33.1
C-121	Bottom	1	08/25/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	21.4
C-122	Bottom	1	08/25/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	11.9
C-123	Bottom	1	08/25/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	270
C-124	Bottom	1	08/25/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	51.2
C-125	Bottom	1	08/25/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	74.8
C-126	Bottom	1	08/25/2021	In-Situ	<0.00202	<0.00404	78.4	<49.8	<49.8	78.4	87.9
C-127	Bottom	1	08/25/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	20.5
C-128	Bottom	1	08/25/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	33.1
C-129	Bottom	1	08/25/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	27.3
C-130	Bottom	1	08/25/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	16.3
C-131	Bottom	1	08/25/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	76.4
C-132	Bottom	1	08/25/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	44.2
C-133	Bottom	1	08/25/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	30.3
C-134	Bottom	1	08/25/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	89.6

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-135	Bottom	1	08/25/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	250
C-136	Bottom	1	08/25/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	29.6
C-137	Bottom	1	08/25/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	23.8
C-138	Bottom	1	08/25/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	87.9
C-139	Bottom	1	08/25/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	25.2
C-140	Bottom	1	08/25/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	30.9
C-141	Bottom	1	08/25/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	172
C-142	Bottom	1	08/25/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	84
C-143	Bottom	1	08/25/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	216
C-144	Bottom	1	08/25/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	90
C-145	Bottom	1	08/25/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	30.4
C-146	Bottom	1	08/25/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	65.8
C-147	Bottom	1	08/25/2021	In-Situ	<0.00199	0.00438	<50.0	<50.0	<50.0	<50.0	48.9
C-148	Bottom	1	08/25/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	66
C-149	Bottom	1	08/25/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	204
C-150	Bottom	1	08/25/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	102
C-151	Bottom	1	08/25/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	331
C-152	Bottom	1	08/25/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	257
C-153	Bottom	1	08/25/2021	Excavated	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	792
		4.1	12/29/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	1110
C-154	Bottom	1	08/25/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	66.1
C-155	Bottom	1	08/25/2021	In-Situ	<0.00201	<0.00404	<50.0	<50.0	<50.0	<50.0	84.4
C-156	Bottom	1	08/26/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	127
C-157	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	57.3
C-158	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	94.6
C-159	Bottom	1	08/26/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	18.4
C-160	Bottom	1	08/26/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	28.4
C-161	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	41.1
C-162	Bottom	1	08/26/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1270
		4.1	09/29/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	182

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-163	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	44.2
C-164	Bottom	1	08/26/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	52.5
C-165	Bottom	1	08/26/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	51.5
C-166	Bottom	1	08/26/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	36
C-167	Bottom	1	08/26/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	245
C-168	Bottom	1	08/26/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	21.5
C-169	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	65.1
C-170	Bottom	1	08/26/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	173
C-171	Bottom	1	08/26/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	96.8
C-172	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	128
C-173	Bottom	1	08/26/2021	In-Situ	<0.00198	0.00848	<50.0	<50.0	<50.0	<50.0	85.5
C-174	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	75.8
C-175	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	207
C-176	Bottom	1	08/26/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	44.7
C-177	Bottom	1	08/26/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	20.4
C-178	Bottom	1	08/26/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	13.9
C-179	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	34.6
C-180	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	61.2
C-181	Bottom	1	08/26/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	117
C-182	Bottom	1	08/26/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	237
C-183	Bottom	1	08/26/2021	Excavated	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	746
		4.1	12/29/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	306
C-184	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	32.3
C-185	Bottom	1	08/26/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	25.8
C-186	Bottom	1	08/26/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	27.5
C-187	Bottom	1	08/26/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	261
C-188	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	59.1
C-189	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	125
C-190	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	57.7
C-191	Bottom	1	08/26/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	131

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-192	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	215
C-193	Bottom	1	08/26/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	30.7
C-194	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	141
C-195	Bottom	1	08/26/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	222
C-196	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	58.7
C-197	Bottom	1	08/26/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	45.8
C-198	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	99.1
C-199	Bottom	1	08/26/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	149
C-200	Bottom	1	08/26/2021	Excavated	0.00437	0.00658	<49.9	<49.9	<49.9	<49.9	5330
		4.1	09/29/2021	In-Situ	<0.00198	<0.00200	<49.9	<49.9	<49.9	<50.0	1790
C-201	Bottom	1	08/26/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	4900
		4.1	09/29/2021	In-Situ	<0.00202	<0.00200	<49.9	<49.9	<49.9	<50.0	1630
C-202	Bottom	1	08/26/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	88.9
C-203	Sidewall	0-1	09/01/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	59.2
C-204	Sidewall	0-1	09/01/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	24.1
C-205	Sidewall	0-1	09/01/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	50.5
C-206	Sidewall	0-1	09/01/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	3760
		0-1	10/07/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	353
C-207	Sidewall	0-1	09/01/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	22.3
C-208	Sidewall	0-1	09/01/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	27.2
C-209	Sidewall	0-1	09/01/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	22.2
C-210	Sidewall	0-1	09/01/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	23.3
C-211	Sidewall	0-1	09/01/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	20.7
C-212	Sidewall	0-1	09/01/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	22.5
C-213	Sidewall	0-1	09/01/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	24.9
C-214	Sidewall	0-1	09/01/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	76.6
C-215	Sidewall	0-1	09/01/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	21.7
C-216	Sidewall	0-1	09/01/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	23.1
C-217	Bottom	1	09/02/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	68.5
C-218	Bottom	1	09/02/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	76.9

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32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-219	Bottom	1	09/02/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	255
C-220	Bottom	1	09/02/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	86.7
C-221	Bottom	1	09/02/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	292
C-222	Bottom	1	09/02/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	41.4
C-223	Bottom	1	09/02/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	37.1
C-224	Bottom	1	09/02/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	66.7
C-225	Bottom	1	09/02/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	24
C-226	Bottom	1	09/02/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	28.1
C-227	Bottom	1	09/02/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	33.9
C-228	Bottom	1	09/02/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	37.9
C-229	Bottom	1	09/02/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	82.9
C-230	Bottom	1	09/02/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	54
C-231	Bottom	1	09/02/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	35.4
C-232	Bottom	1	09/02/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	23.7
C-233	Bottom	1	09/02/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	129
C-234	Bottom	1	09/02/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	68.2
C-235	Bottom	1	09/02/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	142
C-236	Bottom	1	09/02/2021	Excavated	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	774
		4.1	10/07/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	716
C-237	Bottom	1	09/02/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	45.9
C-238	Bottom	1	09/02/2021	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	813
		3	12/29/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	102
C-239	Bottom	1	09/02/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	32.4
C-240	Bottom	1	09/02/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	45.9
C-241	Bottom	1	09/02/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	52.8
C-242	Bottom	1	09/02/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	36.7
C-243	Bottom	1	09/02/2021	In-Situ	<0.00202	<0.00401	<49.8	<49.8	<49.8	<49.8	48.4
C-244	Bottom	1	09/02/2021	In-Situ	<0.00201	<0.00403	<49.9	<49.9	<49.9	<49.9	53.7
C-245	Bottom	1	09/02/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	24.4
C-246	Bottom	1	09/02/2021	In-Situ	<0.00200	<0.00402	<49.9	<49.9	<49.9	<49.9	26.3

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-247	Bottom	1	09/02/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	48.2
C-248	Bottom	1	09/02/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	73
C-249	Bottom	1	09/02/2021	In-Situ	<0.00199	<0.00399	<50.0	<50.0	<50.0	<50.0	117
C-250	Bottom	1	09/02/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	28.4
C-251	Bottom	1	09/02/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	27.7
C-252	Bottom	1	09/02/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	45.6
C-253	Bottom	1	09/02/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	90.5
C-254	Bottom	1	09/02/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	38.3
C-255	Bottom	1	09/02/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	142
C-256	Bottom	1	09/02/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	48.3
C-257	Bottom	1	09/02/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	23.2
C-258	Bottom	1	09/08/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	19.9
C-259	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	23
C-260	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	18.7
C-261	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	25.9
C-262	Bottom	1	09/08/2021	In-Situ	0.00254	0.00459	<49.8	<49.8	<49.8	<49.8	21.2
C-263	Bottom	1	09/08/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	14.9
C-264	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	44.4
C-265	Bottom	1	09/08/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	27.6
C-266	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	28.3
C-267	Bottom	1	09/08/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	53.1
C-268	Bottom	1	09/08/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	22.4
C-269	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	104
C-270	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	23.8
C-271	Bottom	1	09/08/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	55.3
C-272	Bottom	1	09/08/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	40.2
C-273	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	45.2
C-274	Bottom	1	09/08/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	141
C-275	Bottom	1	09/08/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	105
C-276	Bottom	1	09/08/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	114

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-277	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	51.5
C-278	Bottom	1	09/08/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	147
C-279	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	45.6
C-280	Bottom	1	09/08/2021	In-Situ	<0.00199	0.00283	<49.9	<49.9	<49.9	<49.9	82.9
C-281	Bottom	1	09/08/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	125
C-282	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	85.1
C-283	Bottom	1	09/08/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	125
C-284	Bottom	1	09/08/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	116
C-285	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	139
C-286	Bottom	1	09/08/2021	In-Situ	<0.00200	0.00695	<49.8	<49.8	<49.8	<49.8	197
C-287	Bottom	1	09/08/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	185
C-288	Bottom	1	09/08/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	107
C-289	Bottom	1	09/08/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	151
C-290	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	89.1
C-291	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	116
C-292	Bottom	1	09/08/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	98.6
C-293	Bottom	1	09/08/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	108
C-294	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	113
C-295	Bottom	1	09/08/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	75.9
C-296	Bottom	1	09/08/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	99.8
C-297	Bottom	1	09/09/2021	In-Situ	0.00375	0.00375	<50.0	<50.0	<50.0	<50.0	62
C-298	Bottom	1	09/09/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	385
C-299	Bottom	1	09/09/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	392
C-300	Bottom	1	09/09/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	373
C-301	Bottom	1	09/09/2021	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	677
		4.1	01/12/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	882
C-302	Bottom	1	09/09/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	382
C-303	Bottom	1	09/09/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	423
C-304	Bottom	1	09/09/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	316
C-305	Bottom	1	09/09/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	425

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-306	Bottom	4.1	09/09/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	363
C-307	Bottom	4.1	09/09/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	328
C-308	Bottom	4.1	09/09/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	255
C-309	Bottom	4.1	09/09/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	313
C-310	Bottom	4.1	09/09/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	2130
C-311	Bottom	4.1	09/09/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	1750
C-312	Bottom	4.1	09/09/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	635
C-313	Bottom	4.1	09/09/2021	In-Situ	0.00233	0.00233	<50.0	<50.0	<50.0	<50.0	894
C-314	Bottom	4.1	09/09/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	1110
C-315	Bottom	4.1	09/09/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1020
C-316	Bottom	4.1	09/09/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1270
		2.5	10/27/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	50.5
C-317	Bottom	4.1	09/09/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1290
C-318	Bottom	4.1	09/09/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	467
C-319	Bottom	4.1	09/09/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	207
C-320	Bottom	4.1	09/09/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	119
C-321	Bottom	4.1	09/09/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	123
C-322	Bottom	4.1	09/09/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	100
C-323	Sidewall	0-4.1	09/14/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	922
		0-4.1	10/27/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	131
C-324	Sidewall	0-4.1	09/14/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	491
C-325	Sidewall	0-4.1	09/14/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	434
C-326	Sidewall	0-4.1	09/14/2021	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<50.0	1540
		0-4.1	10/27/2021	Excavated	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	633
		0-4.1	01/12/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	256
C-327	Sidewall	0-4.1	09/14/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<50.0	363
C-328	Sidewall	0-4.1	09/14/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	135
C-329	Sidewall	0-4.1	09/14/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<50.0	130
C-330	Sidewall	0-4.1	09/14/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<50.0	192
C-331	Sidewall	0-4.1	09/14/2021	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<50.0	2600

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Confirmation Soil Sample Analytical Data Summary
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Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
		0-4.1	01/12/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	119
C-332	Sidewall	0-1	09/14/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	173
C-333	Sidewall	0-1	09/14/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<50.0	245
C-334	Sidewall	0-1	09/14/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<50.0	102
C-335	Sidewall	0-1	09/14/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<50.0	14.9
C-336	Sidewall	0-1	09/14/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<50.0	190
C-337	Sidewall	0-1	09/14/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	273
C-338	Sidewall	0-1	09/14/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	45
C-339	Sidewall	0-1	09/14/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<50.0	25.8
C-340	Sidewall	0-1	09/14/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	439
C-341	Sidewall	0-1.5	09/15/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<50.0	34.2
C-342	Sidewall	0-1.5	09/15/2021	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	976
		0-1.5	12/28/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	70.1
C-343	Sidewall	0-1.5	09/15/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<50.0	298
C-344	Bottom	1.5	09/15/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1110
		2.5	10/27/2021	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	662
		4.1	12/07/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	789
C-345	Bottom	1.5	09/15/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	350
C-346	Bottom	1.5	09/15/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	762
C-347	Bottom	1.5	09/15/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	981
		2.5	10/27/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	50.1
C-348	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	34
C-349	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<50.0	36.8
C-350	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<50.0	68.1
C-351	Bottom	1.5	09/15/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<50.0	109
C-352	Bottom	1.5	09/15/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	63.4
C-353	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<50.0	46.4
C-354	Bottom	1.5	09/15/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	47.3
C-355	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<50.0	124
C-356	Bottom	1.5	09/15/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<50.0	216

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Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-357	Bottom	1.5	09/15/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	140
C-358	Bottom	1.5	09/15/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	204
C-359	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<50.0	251
C-360	Bottom	1.5	09/15/2021	In-Situ	<0.000198	<0.000397	<50.0	<50.0	<50.0	<50.0	357
C-361	Bottom	1.5	09/15/2021	Excavated	<0.00202	<0.00403	<49.8	<49.8	<49.8	<50.0	664
		2.5	10/27/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	252
C-362	Bottom	1.5	09/15/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	442
C-363	Bottom	1.5	09/15/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	255
C-364	Bottom	1.5	09/15/2021	Excavated	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	732
		4.1	12/09/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	720
C-365	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<50.0	208
C-366	Bottom	1.5	09/15/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	164
C-367	Bottom	1.5	09/15/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<50.0	112
C-368	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	108
C-369	Bottom	1.5	09/15/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<50.0	78.9
C-370	Bottom	1.5	09/15/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	40.3
C-371	Bottom	1.5	09/15/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	26.7
C-372	Bottom	1.5	09/15/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<50.0	12.7
C-373	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00400	<49.8	60.3	<49.8	60.3	182
C-374	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	49.8
C-375	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<50.0	58.9
C-376	Bottom	1.5	09/15/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<50.0	328
C-377	Bottom	1.5	09/15/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	191
C-378	Bottom	1.5	09/15/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	1480
		4.1	12/14/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	281
C-379	Bottom	1.5	09/15/2021	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<50.0	1310
		4.1	12/07/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	1430
C-380	Bottom	1.5	09/15/2021	Excavated	<0.00200	<0.00399	<49.8	63.8	<49.8	63.8	1590
		2.5	10/27/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	427
C-381	Bottom	1.5	09/15/2021	Excavated	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	1580

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-382	Bottom	2.5	10/27/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	527
		1.5	09/15/2021	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<50.0	1090
		4.1	12/07/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	324
C-383	Bottom	1.5	09/15/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<50.0	207
C-384	Bottom	1.5	09/15/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	201
C-385	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<50.0	110
C-386	Bottom	1.5	09/15/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<50.0	193
C-387	Bottom	1	09/16/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<50.0	50.7
C-388	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	46.9
C-389	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	50.8
C-390	Bottom	1	09/16/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<50.0	20.5
C-391	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<50.0	17.6
C-392	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	30.2
C-393	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<50.0	44.5
C-394	Bottom	1	09/16/2021	In-Situ	0.00301	<0.00402	<49.9	<49.9	<49.9	<50.0	55.4
C-395	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<50.0	44.4
C-396	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<50.0	25.6
C-397	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	15.5
C-398	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	26.5
C-399	Bottom	1	09/16/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<50.0	31
C-400	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	24.6
C-401	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<50.0	27.1
C-402	Bottom	1	09/16/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	31
C-403	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	24.4
C-404	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	41.2
C-405	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	27.9
C-406	Bottom	1	09/16/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<50.0	18.4
C-407	Bottom	1	09/16/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<50.0	16.1
C-408	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	19.6
C-409	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<50.0	22.3

Table 2
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Eddy County, New Mexico
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Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-410	Bottom	1	09/16/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<50.0	24.3
C-411	Bottom	1	09/16/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<50.0	35.9
C-412	Bottom	1	09/16/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	24.7
C-413	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<50.0	28.2
C-414	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<50.0	26.9
C-415	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	36.1
C-416	Bottom	1	09/16/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<50.0	46.2
C-417	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	26
C-418	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	20.9
C-419	Bottom	1	09/16/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<50.0	16.2
C-420	Bottom	1	09/16/2021	In-Situ	<0.00202	0.00505	<50.0	<50.0	<50.0	<50.0	48.9
C-421	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	50
C-422	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	62.7
C-423	Bottom	1	09/16/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<50.0	40.3
C-424	Bottom	1	09/16/2021	In-Situ	0.00336	0.00763	<50.0	<50.0	<50.0	<50.0	32.1
C-425	Bottom	1	09/16/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<50.0	17.5
C-426	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	24.4
C-427	Bottom	1	09/16/2021	In-Situ	<0.00199	0.00492	<49.8	<49.8	<49.8	<50.0	18.3
C-428	Bottom	1	09/16/2021	In-Situ	<0.00199	0.0118	<50.0	<50.0	<50.0	<50.0	12.6
C-429	Bottom	1	09/16/2021	In-Situ	0.00367	0.00726	<49.9	<49.9	<49.9	<50.0	5.24
C-430	Bottom	1	09/16/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<50.0	22.6
C-431	Bottom	1	09/16/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<50.0	34
C-432	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	30
C-433	Bottom	1	09/16/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<50.0	25.6
C-434	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	26.6
C-435	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<50.0	22.7
C-436	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<50.0	19
C-437	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	53.2
C-438	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	30.8
C-439	Bottom	1	09/16/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<50.0	20.2

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Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-440	Bottom	1	09/16/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	27.7
C-441	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	30.7
C-442	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	24
C-443	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	25.3
C-444	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	28.6
C-445	Bottom	1	09/16/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<50.0	21.2
C-446	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	21.8
C-447	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	29.4
C-448	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	36.5
C-449	Bottom	1	09/16/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<50.0	152
C-450	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<50.0	19.1
C-451	Bottom	1	09/16/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<50.0	13.1
C-452	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	11.4
C-453	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	14.2
C-454	Bottom	1	09/16/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<50.0	16.8
C-455	Bottom	1	09/16/2021	In-Situ	0.00423	0.00423	<49.9	<49.9	<49.9	<50.0	16
C-456	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<50.0	31.6
C-457	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	22.4
C-458	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	14.7
C-459	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<50.0	16.3
C-460	Bottom	1	09/16/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	28.1
C-461	Bottom	1	09/16/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<50.0	25.3
C-462	Bottom	1	09/16/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	25.7
C-463	Bottom	1	09/16/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	11.8
C-464	Sidewall	0-1	09/16/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	11.2
C-465	Sidewall	0-1	09/16/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<50.0	7.28
C-466	Sidewall	0-1	09/16/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<50.0	13.2
C-467	Sidewall	0-1	09/21/2021	In-Situ	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	132
C-468	Sidewall	0-1	09/21/2021	In-Situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	400
C-469	Sidewall	0-1	09/21/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	473

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Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-470	Sidewall	0-1	09/21/2021	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	1440
		0-1	10/27/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	230
C-471	Bottom	1	09/21/2021	Excavated	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	655
		2.5	10/27/2021	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	297
		3.5	12/09/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	407
C-472	Sidewall	0-1	09/21/2021	In-Situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	88.5
C-473	Bottom	1	09/21/2021	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	2860
		2.5	10/18/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	436
C-474	Bottom	1	09/21/2021	In-Situ	0.00375	0.00375	<49.9	<49.9	<49.9	<50.0	289
C-475	Bottom	1	09/21/2021	In-Situ	0.00481	0.00481	<49.8	<49.8	<49.8	<50.0	64.6
C-476	Bottom	1	09/21/2021	In-Situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	74.4
C-477	Bottom	1	09/21/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	40
C-478	Bottom	1	09/21/2021	In-Situ	<0.00198	<0.00200	<49.9	<49.9	<49.9	<50.0	51.3
C-479	Bottom	1	09/21/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	42.2
C-480	Bottom	1	09/21/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	38.6
C-481	Bottom	1	09/21/2021	Excavated	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	155
		2.5	10/18/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	85.9
C-482	Bottom	1	09/21/2021	Excavated	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	1580
		2.5	11/24/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	346
C-483	Bottom	1	09/21/2021	Excavated	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	1880
		2.5	11/24/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	150
C-484	Bottom	1	09/21/2021	Excavated	<0.00200	0.00508	<50.0	<50.0	<50.0	<50.0	1360
		3.5	11/24/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	202
C-485	Bottom	1	09/21/2021	Excavated	<0.00202	<0.00200	<49.8	<49.8	<49.8	<49.8	1110
		2.5	11/30/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	294
C-486	Bottom	1	09/21/2021	Excavated	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	8640
		2.5	10/18/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	388
C-487	Bottom	1	09/21/2021	Excavated	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	2250
		2.5	10/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	405
C-488	Bottom	1	09/21/2021	Excavated	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	1510

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-489	Bottom	2.5	11/29/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	239
		1	09/21/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	1670
		2.5	10/18/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	440
C-490	Bottom	1	09/21/2021	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	727
		2.5	11/29/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	369
		1	09/22/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	3210
C-491	Bottom	2.5	12/14/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	89.9
		1	09/22/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	146
		2.5	10/18/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	51.1
C-492	Bottom	1	09/22/2021	Excavated	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	1680
		4.1	12/28/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	478
		1	09/22/2021	Excavated	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	3150
C-493	Bottom	3.5	11/24/2021	Excavated	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	1250
		4.1	12/14/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	203
		1	09/22/2021	Excavated	<0.00201	<0.00200	<49.8	<49.8	<49.8	<49.8	1610
C-494	Bottom	2.5	10/18/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	659
		3.5	11/24/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	171
		1	09/22/2021	Excavated	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	1720
C-495	Bottom	2.5	11/23/2021	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	666
		3.5	12/28/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	109
		1	09/22/2021	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	1890
C-496	Bottom	3.5	11/30/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	164
		1	09/22/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<50.0	276
		1	09/22/2021	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<50.0	2830
C-497	Bottom	4.1	11/29/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	502
		1	09/22/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	885
		2.5	10/18/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	97.8
C-498	Bottom	1	09/22/2021	Excavated	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	1230
		2.5	10/18/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	600
		3.5	11/29/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	350

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-502	Bottom	1	09/22/2021	Excavated	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	1490
		2.5	11/29/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	302
C-503	Bottom	1	09/22/2021	Excavated	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	1920
		2.5	11/29/2021	Excavated	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	738
C-504	Bottom	3.5	12/14/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	51.4
		1	09/22/2021	Excavated	<0.00198	<0.00200	<50.0	<50.0	<50.0	<50.0	2370
C-505	Bottom	2.5	11/29/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	539
		1	09/22/2021	Excavated	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	1200
C-506	Bottom	2.5	10/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	83.8
		1	09/22/2021	In-Situ	<0.00198	<0.00200	<50.0	<50.0	<50.0	<50.0	480
C-507	Bottom	1	09/22/2021	Excavated	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	1450
		2.5	10/18/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	397
C-508	Bottom	1	09/22/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	2180
		2.5	11/29/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	298
C-509	Bottom	1	09/22/2021	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	1370
		2.5	10/18/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	228
C-510	Bottom	1	09/22/2021	In-Situ	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	197
		1	09/22/2021	Excavated	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	803
C-511	Bottom	2.5	10/18/2021	Excavated	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	621
		3.5	11/29/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	480
C-512	Bottom	1	09/22/2021	Excavated	0.00227	0.0252	<50.0	<50.0	<50.0	<50.0	617
		2.5	10/18/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	6.6
C-513	Bottom	1	09/22/2021	Excavated	<0.00198	<0.00200	<49.9	<49.9	<49.9	<50.0	880
		2.5	11/23/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	307
C-514	Bottom	1	09/22/2021	Excavated	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	899
		2.5	11/23/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	75.5
C-515	Bottom	1	09/22/2021	Excavated	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	3580
		3.5	11/23/2021	Excavated	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	166
C-516	Bottom	4.1	12/14/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	73.2
		1	09/22/2021	Excavated	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	1540

Table 2
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Select Energy Services, Inc., Palmio AST
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32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-517	Bottom	3.5	11/23/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	326
		1	09/22/2021	Excavated	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	2410
		2.5	10/18/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	347
C-518	Bottom	1	09/22/2021	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<50.0	1760
		2.5	10/18/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	214
		1	09/22/2021	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<50.0	1280
C-519	Bottom	1	09/22/2021	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<50.0	1280
		2.5	11/23/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	26.3
		1	09/22/2021	Excavated	<0.00200	<0.00400	<49.8	<49.8	<49.8	<50.0	894
C-520	Bottom	1	09/22/2021	Excavated	<0.00200	<0.00400	<49.8	<49.8	<49.8	<50.0	894
		2.5	11/23/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	219
		1	09/22/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	1220
C-521	Bottom	1	09/22/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	1220
		2.5	10/18/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	904
		3.5	11/23/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	85.4
C-522	Bottom	1	09/22/2021	Excavated	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	1010
		2.5	10/18/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	6.06
		1	09/22/2021	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	420
C-523	Bottom	1	09/22/2021	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	420
C-524	Bottom	1	09/22/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	2000
		2.5	11/29/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1000
		3.5	12/14/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	190
C-525	Bottom	1	09/22/2021	Excavated	<0.00202	<0.00403	<49.8	<49.8	<49.8	<50.0	1410
		3.5	11/30/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	189
		1	09/22/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1960
C-526	Bottom	1	09/22/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1960
		2.5	10/18/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	384
		1	09/22/2021	Excavated	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	2460
C-527	Bottom	1	09/22/2021	Excavated	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	2460
		3.5	11/29/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	304
		1	09/22/2021	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1450
C-528	Bottom	1	09/22/2021	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1450
		2.5	10/18/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	349
		1	09/22/2021	Excavated	<0.00198	<0.00200	<49.9	<49.9	<49.9	<49.9	2080
C-529	Bottom	1	09/22/2021	Excavated	<0.00198	<0.00200	<49.9	<49.9	<49.9	<49.9	2080
		2.5	10/18/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<5.00
		1	09/22/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	153
C-530	Bottom	1	09/22/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	153
C-531	Bottom	1	09/22/2021	Excavated	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	887

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32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-532	Bottom	2.5	10/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	6.81
C-533	Bottom	1	09/22/2021	In-Situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	20.8
C-534	Bottom	1	09/22/2021	In-Situ	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	54.2
C-535	Bottom	1	09/22/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	114
C-536	Bottom	1	09/22/2021	In-Situ	<0.00201	<0.00200	<49.8	<49.8	<49.8	<50.0	297
C-537	Bottom	1	09/22/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	330
C-538	Bottom	1	09/22/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	470
		1	09/22/2021	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	748
		2.5	10/18/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	7.93
C-539	Bottom	1	09/22/2021	In-Situ	<0.00198	<0.00200	<49.9	<49.9	<49.9	<50.0	382
C-540	Bottom	1	09/22/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	267
C-541	Bottom	1	09/22/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	322
C-542	Bottom	1	09/22/2021	In-Situ	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	540
C-543	Bottom	1	09/22/2021	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	527
C-544	Bottom	1	09/22/2021	In-Situ	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	369
C-545	Bottom	1	09/22/2021	In-Situ	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	219
C-546	Bottom	1	09/22/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	573
C-547	Bottom	1	09/22/2021	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	331
C-548	Bottom	1	09/22/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	242
C-549	Bottom	1	09/22/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	169
C-550	Bottom	1	09/22/2021	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<50.0	798
		2.5	10/27/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	73.2
C-551	Bottom	1	09/22/2021	In-Situ	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	134
C-552	Bottom	1	09/22/2021	In-Situ	<0.00199	0.00604	<50.0	<50.0	<50.0	<50.0	171
C-553	Bottom	1	09/22/2021	In-Situ	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	461
C-554	Bottom	1	09/22/2021	Excavated	<0.00200	0.00227	<49.9	<49.9	<49.9	<50.0	955
		2.5	10/27/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	260
C-555	Bottom	1	09/22/2021	In-Situ	<0.00198	<0.00200	<49.8	<49.8	<49.8	<50.0	199
C-556	Bottom	1	09/22/2021	In-Situ	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	361
C-557	Bottom	1	09/22/2021	In-Situ	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	23.6

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-558	Bottom	1	09/22/2021	In-Situ	<0.00200	0.00241	<49.9	<49.9	<49.9	<50.0	166
C-559	Bottom	1	09/22/2021	In-Situ	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	372
C-560	Bottom	1	09/22/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	345
C-561	Bottom	1	09/22/2021	Excavated	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	299
C-562	Bottom	2.5	10/27/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	635
		2.5	01/27/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	164
		1	09/23/2021	Excavated	<0.00198	<0.00200	<50.0	<50.0	<50.0	<50.0	1660
		2.5	10/27/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	761
		3.5	12/08/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	312
C-563	Bottom	1	09/23/2021	In-Situ	<0.00201	<0.00200	<49.8	<49.8	<49.8	<50.0	385
C-564	Bottom	1	09/23/2021	In-Situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	583
C-565	Bottom	1	09/23/2021	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<50.0	1360
C-566	Bottom	2.5	10/27/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	122
		1	09/23/2021	Excavated	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	1070
		2.5	10/27/2021	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	746
C-567	Bottom	3.5	12/08/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	87.5
		1	09/23/2021	Excavated	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	741
		2.5	10/27/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	239
C-568	Bottom	1	09/23/2021	In-Situ	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	357
C-569	Bottom	1	09/23/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<50.0	369
C-570	Bottom	1	09/23/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	294
C-571	Bottom	1	09/23/2021	Excavated	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	651
C-572	Bottom	2.5	10/27/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	95.3
		1	09/23/2021	In-Situ	<0.00198	<0.00200	<50.0	<50.0	<50.0	<50.0	279
		2.5	10/27/2021	Excavated	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	226
C-573	Bottom	1	09/23/2021	In-Situ	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	300
C-574	Bottom	1	09/23/2021	In-Situ	<0.00198	<0.00200	<49.9	<49.9	<49.9	<50.0	186
C-575	Bottom	1	09/23/2021	In-Situ	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	316
C-576	Bottom	1	09/23/2021	In-Situ	<0.00200	0.00753	<50.0	<50.0	<50.0	<50.0	646
		3.5	01/27/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	89.2

Table 2
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Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-578	Bottom	1	09/23/2021	In-Situ	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	647
		2.5	01/27/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	333
C-579	Bottom	1	09/23/2021	Excavated	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	970
		2.5	10/27/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	356
C-580	Bottom	1	09/23/2021	In-Situ	<0.00202	<0.00200	<49.9	<49.9	<49.9	<50.0	764
		2.5	01/27/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	210
C-581	Bottom	1	09/23/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	409
C-582	Bottom	1	09/23/2021	In-Situ	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	393
C-583	Bottom	1	09/23/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	1040
		2.5	10/27/2021	Excavated	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	923
		3.5	12/09/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	243
C-584	Bottom	1	09/23/2021	Excavated	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	1000
		4.1	12/13/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	1160
C-585	Bottom	1	09/23/2021	In-Situ	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	543
C-586	Bottom	1	09/23/2021	Excavated	<0.00201	<0.00200	<49.8	<49.8	<49.8	<50.0	177
		2.5	10/27/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	629
		3.5	01/27/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	71.2
C-587	Bottom	1	09/23/2021	Excavated	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	197
		4.1	12/13/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	672
C-588	Bottom	1	09/23/2021	Excavated	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	1020
		4.1	12/13/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	507
C-589	Bottom	1	09/23/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	867
		2.5	10/27/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	235
		4.1	12/13/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	660
C-590	Bottom	1	09/23/2021	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<50.0	1120
		2.5	10/27/2021	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	750
		4.1	12/13/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	364
C-591	Bottom	1	09/23/2021	In-Situ	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	514
C-592	Bottom	1	09/23/2021	Excavated	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	1440
		3.5	12/08/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	683

Table 2
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Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-593	Bottom	4.1	01/25/2022	In-Situ	<0.00200	<0.00400	<49.9	76.1	<49.9	76.1	1820
		1	09/23/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	2000
		4.1	12/13/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	2290
C-594	Bottom	1	09/23/2021	Excavated	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	1960
		3.5	12/08/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	485
		1	09/23/2021	In-Situ	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	424
C-595	Bottom	1	09/23/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<50.0	240
C-596	Bottom	1	09/23/2021	Excavated	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	2020
C-597	Bottom	2.5	10/27/2021	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	776
		3.5	12/08/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	296
		1	09/23/2021	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	2270
C-598	Bottom	3.5	12/08/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	218
		1	09/23/2021	Excavated	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	1490
		3.5	12/08/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	287
C-599	Bottom	1	09/23/2021	Excavated	<0.00202	<0.00200	<49.9	<49.9	<49.9	<50.0	759
		3.5	12/08/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	369
		1	09/23/2021	Excavated	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	1190
C-600	Bottom	2.5	10/27/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	380
		1	09/23/2021	In-Situ	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	241
		1	09/23/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	1400
C-601	Bottom	3.5	12/08/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	428
		1	09/23/2021	Excavated	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	1460
		2.5	10/27/2021	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	736
C-602	Bottom	3.5	12/08/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	441
		1	09/23/2021	Excavated	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	881
		2.5	10/27/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	958
C-603	Bottom	4.1	12/13/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	1140
		1	09/23/2021	In-Situ	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	542
		1	09/23/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	609
C-604	Bottom	3.5	12/07/2021	Excavated	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	254

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Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
		4.1	12/08/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	208
C-608	Bottom	1	09/23/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	386
C-609	Bottom	1	09/23/2021	In-Situ	<0.00198	0.00998	<49.9	<49.9	<49.9	<50.00	477
C-610	Bottom	1	09/23/2021	In-Situ	<0.00202	<0.00200	<49.9	<49.9	<49.9	<50.0	438
C-611	Bottom	1	09/23/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	587
C-612	Bottom	1	09/23/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	87.4
C-613	Bottom	1	09/23/2021	In-Situ	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	163
C-614	Bottom	1	09/23/2021	In-Situ	<0.00199	0.00702	<49.9	<49.9	<49.9	<50.0	185
C-615	Bottom	1	09/23/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	456
C-616	Bottom	1	09/23/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	1110
		4.1	12/14/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	620
C-617	Bottom	1	09/23/2021	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	768
		4.1	12/07/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	913
C-618	Bottom	1	09/23/2021	Excavated	0.00293	0.00746	<49.9	<49.9	<49.9	<50.0	1260
		4.1	12/07/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	935
C-619	Bottom	1	09/23/2021	Excavated	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	1700
		4.1	12/07/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	1300
C-620	Bottom	1	09/23/2021	Excavated	<0.00201	<0.00200	<49.8	<49.8	<49.8	<50.0	1140
		4.1	12/07/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	945
C-621	Bottom	1	09/23/2021	Excavated	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	1370
		3.5	12/07/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	495
C-622	Bottom	1	09/23/2021	Excavated	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	151
		2.5	10/27/2021	Excavated	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	721
		4.1	12/13/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	210
C-623	Bottom	1	09/23/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	374
C-624	Bottom	1	09/23/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	458
C-625	Bottom	1	09/23/2021	In-Situ	<0.00201	<0.00200	<49.8	<49.8	<49.8	<50.0	199
C-626	Bottom	1	09/23/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	387
C-627	Bottom	1	09/23/2021	In-Situ	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	98.1
C-628	Bottom	1	09/23/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	30.7

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RAL:					10	50	100/2,500			600/10,000	
C-629	Bottom	1	09/23/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	59.3
C-630	Bottom	1	09/23/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	686
		2.5	10/27/2021	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	890
		4.1	12/07/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	559
C-631	Bottom	1	09/23/2021	Excavated	<0.00198	0.219	<49.8	<49.8	<49.8	<50.0	781
		2.5	10/27/2021	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	651
		3.5	12/07/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	264
C-632	Bottom	1	09/23/2021	Excavated	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	673
		2.5	10/27/2021	Excavated	0.00216	<0.00398	<50.0	<50.0	<50.0	<50.0	734
		3.5	12/07/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	216
C-633	Bottom	2.5	10/27/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	206
C-634	Bottom	1.5	09/28/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	231
C-635	Bottom	1.5	09/28/2021	Excavated	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	2190
		2.5	10/18/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	10.8
C-636	Bottom	1.5	09/28/2021	Excavated	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	758
		2.5	10/20/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	363
C-637	Bottom	1.5	09/28/2021	In-Situ	<0.00198	<0.00200	<49.9	<49.9	<49.9	<50.0	387
C-638	Bottom	1.5	09/28/2021	Excavated	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	652
		2.5	10/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	20.6
C-639	Bottom	1.5	09/28/2021	In-Situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	98.3
C-640	Bottom	1.5	09/28/2021	In-Situ	<0.00202	<0.00200	<49.9	<49.9	<49.9	<50.0	391
C-641	Bottom	1.5	09/28/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	387
C-642	Bottom	1.5	09/28/2021	In-Situ	<0.00201	<0.00200	<49.8	<49.8	<49.8	<50.0	262
C-643	Bottom	1.5	09/28/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	304
C-644	Bottom	1.5	09/28/2021	In-Situ	<0.00198	<0.00200	<49.9	<49.9	<49.9	<50.0	520
C-645	Bottom	1.5	09/28/2021	In-Situ	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	162
C-646	Bottom	1.5	09/28/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	159
C-647	Bottom	1.5	09/28/2021	Excavated	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	827
		3.5	12/13/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	58.8
C-648	Bottom	1.5	09/28/2021	Excavated	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	3300

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-649	Bottom	2.5	10/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<5.05
		1.5	09/28/2021	Excavated	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	662
		3.5	12/13/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	90.4
C-650	Bottom	1.5	09/28/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	332
C-651	Bottom	1.5	09/28/2021	Excavated	<0.00198	<0.00200	<50.0	<50.0	<50.0	<50.0	647
		4.1	12/29/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1630
C-652	Bottom	1.5	09/28/2021	In-Situ	<0.00198	<0.00200	<49.8	<49.8	<49.8	<50.0	554
C-653	Bottom	1.5	09/28/2021	In-Situ	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	385
C-654	Bottom	1.5	09/28/2021	In-Situ	<0.00200	0.00416	<49.8	<49.8	<49.8	<50.0	331
C-655	Bottom	1.5	09/28/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	512
C-656	Bottom	1.5	09/28/2021	In-Situ	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	70.3
C-657	Bottom	1.5	09/28/2021	In-Situ	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	111
C-658	Bottom	1.5	09/28/2021	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	190
C-659	Bottom	1.5	09/28/2021	Excavated	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	1440
		4.1	12/13/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	235
C-660	Bottom	1.5	09/28/2021	In-Situ	<0.00199	<0.00200	<49.9	<49.9	<49.9	<49.9	287
C-661	Bottom	1.5	09/28/2021	In-Situ	<0.00202	<0.00200	<49.9	<49.9	<49.9	<50.0	596
C-662	Bottom	1.5	09/28/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	558
C-663	Bottom	1.5	09/28/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	4030
		3.5	12/13/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	165
C-664	Bottom	1.5	09/28/2021	Excavated	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	2630
		3.5	12/13/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	63.1
C-665	Bottom	1.5	09/28/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	46.2
C-666	Bottom	1.5	09/28/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	119
C-667	Bottom	1.5	09/28/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	284
C-668	Bottom	1.5	09/28/2021	Excavated	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	958
		4.1	12/13/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	584
C-669	Sidewall	0-1.5	09/28/2021	In-Situ	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	166
C-670	Bottom	1.5	09/29/2021	Excavated	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	1220
		2.5	11/03/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	224

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-671	Bottom	1.5	09/29/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	658
		2.5	11/03/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	531
C-672	Bottom	1.5	09/29/2021	In-Situ	<0.00198	<0.00200	<49.9	<49.9	<49.9	<50.0	522
C-673	Bottom	1.5	09/29/2021	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	723
		3.5	11/05/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	473
C-674	Bottom	1.5	09/29/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	496
C-675	Bottom	1.5	09/29/2021	In-Situ	<0.00201	0.00223	<50.0	<50.0	<50.0	<50.0	488
C-676	Bottom	1.5	09/29/2021	In-Situ	<0.00202	0.00375	<49.9	<49.9	<49.9	<50.0	1390
		4.1	01/25/2022	In-Situ	<0.00198	<0.00396	<49.9	75.4	<49.9	75.4	353
C-677	Bottom	1.5	09/29/2021	In-Situ	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	284
C-678	Bottom	1.5	09/29/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	559
C-679	Bottom	1.5	09/29/2021	Excavated	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	632
		2.5	11/03/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	276
C-680	Bottom	1.5	09/29/2021	In-Situ	<0.00200	0.00344	<50.0	<50.0	<50.0	<50.0	69.8
C-681	Bottom	1.5	09/29/2021	In-Situ	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	122
C-682	Bottom	1.5	09/29/2021	In-Situ	0.0023	0.0023	<49.9	<49.9	<49.9	<50.0	267
C-683	Bottom	1.5	09/29/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	89.6
C-684	Bottom	1.5	09/29/2021	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	304
C-685	Bottom	1.5	09/29/2021	In-Situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	100
C-686	Bottom	1.5	09/29/2021	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	51.4
C-687	Bottom	1.5	09/29/2021	In-Situ	0.00369	0.0366	<50.0	<50.0	<50.0	<50.0	74.8
C-688	Bottom	1.5	09/29/2021	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	56.4
C-689	Bottom	1.5	09/29/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	66.3
C-690	Bottom	1.5	09/29/2021	In-Situ	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	70.1
C-691	Bottom	1.5	09/29/2021	In-Situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	127
C-692	Bottom	1.5	09/29/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	79.3
C-693	Bottom	1.5	09/29/2021	In-Situ	0.000182	<0.00200	<49.9	<49.9	<49.9	<50.0	72.6
C-694	Bottom	1.5	09/29/2021	In-Situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	199
C-695	Bottom	1.5	09/29/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	179
C-696	Bottom	1.5	09/29/2021	Excavated	<0.00198	<0.00200	<49.9	<49.9	<49.9	<50.0	642

Table 2
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Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-697	Bottom	2.5	11/03/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	201
		1.5	09/29/2021	In-Situ	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	366
C-698	Bottom	1.5	09/29/2021	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	343
C-699	Bottom	1.5	09/29/2021	In-Situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	398
C-700	Bottom	1.5	09/29/2021	In-Situ	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	185
C-701	Bottom	1.5	09/29/2021	In-Situ	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	322
C-702	Bottom	1.5	09/29/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	293
C-703	Bottom	1.5	09/29/2021	Excavated	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	2450
		4.1	11/09/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	4020
C-704	Bottom	1.5	09/29/2021	Excavated	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	788
		4.1	11/09/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	795
C-705	Bottom	1.5	09/29/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	610
		4.1	11/09/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	563
C-706	Bottom	1.5	09/29/2021	Excavated	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	868
		4.1	11/09/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	557
C-707	Bottom	1.5	09/29/2021	Excavated	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	1580
		4.1	11/09/2021	In-Situ	<0.00198	<0.00398	<49.8	<49.8	<49.8	<49.8	641
C-708	Bottom	1.5	09/29/2021	Excavated	<0.00201	<0.00200	<49.8	<49.8	<49.8	<50.0	2960
		4.1	11/09/2021	In-Situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	698
C-709	Bottom	1.5	09/29/2021	Excavated	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	3940
		4.1	11/09/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	819
C-710	Bottom	1.5	09/29/2021	Excavated	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	6730
		4.1	11/09/2021	In-Situ	<0.00202	<0.00402	<49.9	<49.9	<49.9	<49.9	843
C-711	Bottom	1.5	09/29/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	3450
		4.1	11/09/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	858
C-712	Bottom	1.5	09/29/2021	Excavated	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	2700
		4.1	11/09/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	526
C-713	Bottom	1.5	09/29/2021	Excavated	<0.00199	<0.00200	<49.9	<49.9	<49.9	<50.0	1430
		4.1	11/09/2021	In-Situ	<0.00201	<0.00401	<50.0	<50.0	<50.0	<50.0	1650
C-714	Bottom	1.5	09/29/2021	Excavated	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	7950

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Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-715	Bottom	4.1	11/09/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1720
		1.5	09/29/2021	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	5020
C-716	Bottom	4.1	11/09/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	2280
		1.5	09/29/2021	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	1790
C-717	Bottom	4.1	11/09/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	550
		1.5	09/30/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	281
C-718	Bottom	1.5	09/30/2021	In-Situ	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	513
C-719	Bottom	1.5	09/30/2021	In-Situ	<0.00199	<0.00200	<49.9	<49.9	<49.9	<49.9	227
C-720	Bottom	1.5	09/30/2021	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	469
C-721	Bottom	1.5	09/30/2021	Excavated	<0.00201	<0.00200	<50.0	<50.0	<50.0	<50.0	1470
C-722	Bottom	4.1	11/09/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	906
		1.5	09/30/2021	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	754
C-723	Bottom	4.1	11/09/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	787
		1.5	09/30/2021	In-Situ	<0.00198	<0.00200	<49.8	<49.8	<49.8	<49.8	72.3
C-724	Bottom	1.5	09/30/2021	In-Situ	<0.00198	<0.00200	<49.8	<49.8	<49.8	<49.8	309
C-725	Bottom	1.5	09/30/2021	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	695
C-726	Bottom	2.5	11/02/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	470
		1.5	09/30/2021	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	1290
C-727	Bottom	2.5	11/02/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	103
		1.5	09/30/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	1540
C-728	Bottom	2.5	12/30/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	275
		1.5	09/30/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	201
C-729	Bottom	1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	260
C-730	Bottom	1.5	09/30/2021	Excavated	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	777
C-731	Bottom	4.1	12/30/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	521
		1.5	09/30/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	250
C-732	Bottom	1.5	09/30/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	370
C-733	Bottom	1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	598
C-734	Bottom	1.5	09/30/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1050
		2.5	11/02/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	497

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-735	Bottom	1.5	09/30/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	334
C-736	Bottom	1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	545
C-737	Bottom	1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	374
C-738	Bottom	1.5	09/30/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	296
C-739	Bottom	1.5	09/30/2021	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	1080
		2.5	11/02/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	344
C-740	Bottom	1.5	09/30/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	451
C-741	Bottom	1.5	09/30/2021	Excavated	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	828
		2.5	11/02/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	469
C-742	Bottom	1.5	09/30/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	508
C-743	Bottom	1.5	09/30/2021	Excavated	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	802
		2.5	11/02/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	524
C-744	Bottom	1.5	09/30/2021	Excavated	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	655
		2.5	11/02/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	396
C-745	Bottom	1.5	09/30/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	428
C-746	Bottom	1.5	09/30/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	601
		2.5	11/02/2021	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	617
		4.1	11/22/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	1150
C-747	Bottom	1.5	09/30/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	307
C-748	Bottom	1.5	09/30/2021	Excavated	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	620
		4.1	11/09/2021	In-Situ	<0.00200	<0.00398	<49.9	<49.9	<49.9	<49.9	1380
C-749	Bottom	1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	324
C-750	Bottom	1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	158
C-751	Sidewall	0-1.5	09/30/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	272
C-752	Sidewall	0-1.5	09/30/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	15
C-753	Sidewall	0-1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	116
C-754	Sidewall	0-1.5	09/30/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	104
C-755	Sidewall	0-1.5	09/30/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	60.1
C-756	Sidewall	0-1.5	09/30/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	10.1
C-757	Sidewall	0-1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	388

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-758	Sidewall	0-1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	64.1
C-759	Bottom	1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	21.2
C-760	Bottom	1.5	09/30/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	18.7
C-761	Bottom	1.5	09/30/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	30.7
C-762	Bottom	1.5	09/30/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	49.8
C-763	Bottom	1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	16.2
C-764	Bottom	1.5	09/30/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	82.2
C-765	Bottom	1.5	09/30/2021	Excavated	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	632
		2.5	12/13/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	53.8
C-766	Bottom	1.5	09/30/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	551
C-767	Bottom	1.5	09/30/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	154
C-768	Bottom	1.5	09/30/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	92.6
C-769	Bottom	1.5	09/30/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	17.6
C-770	Bottom	1.5	09/30/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	51.1
C-771	Bottom	1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	28
C-772	Bottom	1.5	09/30/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	33.9
C-773	Bottom	1.5	09/30/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	58.8
C-774	Bottom	1.5	09/30/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	73.8
C-775	Bottom	1.5	09/30/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	52.2
C-776	Bottom	1.5	09/30/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	205
C-777	Bottom	1.5	09/30/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	65.2
C-778	Sidewall	0-1.5	09/30/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	27.2
C-779	Sidewall	0-1.5	09/30/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	20.4
C-780	Bottom	1.5	10/01/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	432
C-781	Bottom	1.5	10/01/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	47.1
C-782	Bottom	1.5	10/01/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	50.5
C-783	Bottom	1.5	10/01/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	21.3
C-784	Bottom	1.5	10/01/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	50.6
C-785	Bottom	1.5	10/01/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	21.8
C-786	Bottom	1.5	10/01/2021	Excavated	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	1210

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-787	Bottom	4.1	11/23/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	1350
C-788	Bottom	1.5	10/01/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	151
C-788	Sidewall	0-1.5	10/01/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	35.6
C-789	Sidewall	0-1.5	10/01/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	32.9
C-790	Sidewall	0-1.5	10/01/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	45.3
		2.5	11/02/2021	Excavated	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	157
C-791	Sidewall	0-1.5	10/01/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	31.4
C-792	Sidewall	0-4.1	10/01/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	36.9
C-793	Sidewall	0-4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	31
C-794	Sidewall	0-4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	27.4
C-795	Sidewall	0-4.1	10/01/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	14.1
C-796	Sidewall	0-4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	111
C-797	Bottom	4.1	10/01/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	380
C-798	Bottom	4.1	10/01/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	376
C-799	Bottom	4.1	10/01/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	460
C-800	Bottom	4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	459
C-801	Bottom	4.1	10/01/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	275
C-802	Sidewall	0-4.1	10/01/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	25.6
C-803	Sidewall	0-4.1	10/01/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	31.7
C-804	Sidewall	0-4.1	10/01/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	70.5
C-805	Sidewall	0-4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	534
C-806	Sidewall	0-4.1	10/01/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	106
C-807	Sidewall	0-4.1	10/01/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	21.2
C-808	Sidewall	0-4.1	10/01/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	68.2
C-809	Bottom	4.1	10/01/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	40.5
C-810	Bottom	4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	49.3
C-811	Bottom	4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	23.7
C-812	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	108
C-813	Bottom	4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	122
C-814	Bottom	4.1	10/01/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	37.3

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-815	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	28.2
C-816	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	182
C-817	Bottom	4.1	10/01/2021	In-Situ	<0.00202	<0.00396	<49.9	<49.9	<49.9	<49.9	197
C-818	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	18.6
C-819	Bottom	4.1	10/01/2021	In-Situ	<0.00202	<0.00403	<50.0	<49.10	<49.10	<49.10	25.9
C-820	Bottom	4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	16.9
C-821	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	18.3
C-822	Bottom	4.1	10/01/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	22.5
C-823	Bottom	4.1	10/01/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	145
C-824	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	244
C-825	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	43
C-826	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	41.8
C-827	Bottom	4.1	10/01/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	98.5
C-828	Bottom	4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	148
C-829	Bottom	4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	23.1
C-830	Bottom	4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	219
C-831	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	25.1
C-832	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	54.1
C-833	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	250
C-834	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	162
C-835	Bottom	4.1	10/01/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	40.2
C-836	Bottom	4.1	10/01/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	119
C-837	Bottom	4.1	10/01/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	106
C-838	Bottom	4.1	10/04/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	1140
C-839	Bottom	4.1	10/04/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	148
C-840	Bottom	4.1	10/04/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	59.6
C-841	Bottom	4.1	10/04/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	661
C-842	Bottom	4.1	10/04/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	18.4
C-843	Bottom	4.1	10/04/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	109
C-844	Bottom	4.1	10/04/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	217

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-845	Bottom	4.1	10/04/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	72.5
C-846	Bottom	4.1	10/04/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	132
C-847	Bottom	4.1	10/04/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	69.8
C-848	Bottom	4.1	10/04/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	34.3
C-849	Bottom	1	10/04/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	12.9
C-850	Bottom	1	10/04/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	20.5
C-851	Bottom	1	10/04/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	132
C-852	Bottom	1	10/04/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	14.6
C-853	Bottom	1	10/05/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	21.9
C-854	Bottom	1	10/05/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	35.8
C-855	Bottom	1	10/05/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	71.9
C-856	Bottom	1	10/05/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	139
C-857	Bottom	1	10/05/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	81.3
C-858	Bottom	1	10/05/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	152
C-859	Bottom	1	10/05/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	96.2
C-860	Bottom	1	10/05/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	77.2
C-861	Bottom	1	10/05/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	102
C-862	Bottom	1	10/05/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	96.8
C-863	Bottom	1	10/05/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	317
C-864	Sidewall	0-1	10/05/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	8.73
C-865	Sidewall	0-1	10/05/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	42.4
C-866	Sidewall	0-1	10/05/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	62.5
C-867	Bottom	2	10/05/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	11.7
C-868	Bottom	2	10/05/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	366
C-869	Bottom	2	10/05/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	535
C-870	Bottom	2	10/05/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	148
C-871	Bottom	2	10/05/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	122
C-872	Bottom	2	10/05/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	5.55
C-873	Bottom	2	10/05/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	492
C-874	Bottom	2	10/05/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	93.5

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-875	Bottom	2	10/05/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	214
C-876	Bottom	2	10/05/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	147
C-877	Bottom	2	10/05/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	191
C-878	Bottom	2	10/05/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	49.6
C-879	Bottom	2	10/05/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	277
C-880	Bottom	2	10/05/2021	Excavated	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	648
		3	11/04/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	447
C-881	Bottom	2	10/05/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	83.1
C-882	Bottom	2	10/05/2021	In-Situ	<0.00198	0.0139	<49.9	<49.9	<49.9	<49.9	26
C-883	Bottom	2	10/05/2021	Excavated	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	1190
		4.1	11/09/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	647
C-884	Bottom	2	10/05/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	151
C-885	Bottom	2	10/05/2021	Excavated	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	630
		4.1	11/09/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	392
C-886	Bottom	2	10/05/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	161
C-887	Bottom	2	10/05/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	373
C-888	Bottom	2	10/05/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	65.7
C-889	Bottom	2	10/05/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	47.3
C-890	Bottom	2	10/05/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	251
C-891	Bottom	2	10/05/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1380
		4.1	11/09/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	412
C-892	Bottom	2	10/05/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	50.9
C-893	Bottom	2	10/05/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	467
C-894	Bottom	2	10/05/2021	Excavated	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	1470
		4.1	11/09/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	488
C-895	Bottom	2	10/05/2021	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	1790
		3	11/04/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	409
C-896	Bottom	2	10/05/2021	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1660
		3	11/04/2021	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	651
		4.1	11/22/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	674

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-897	Bottom	2	10/05/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1050
		4.1	11/09/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	227
C-898	Bottom	2	10/05/2021	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	800
		4.1	11/09/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	536
C-899	Bottom	2	10/05/2021	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	808
		4.1	12/08/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	407
C-900	Bottom	2	10/05/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	58.5	58.5	26.7
C-901	Bottom	2	10/05/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	11.3
C-902	Bottom	2	10/05/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	293
C-903	Bottom	2	10/05/2021	Excavated	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	1330
		3	11/04/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	337
C-904	Bottom	2	10/05/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	24.8
C-905	Bottom	2	10/05/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	15.4
C-906	Bottom	2	10/05/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	13.6
C-907	Bottom	2	10/05/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	63.2
C-908	Sidewall	0-2	10/05/2021	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1620
		0-2	11/09/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	31.6
C-909	Sidewall	0-2	10/05/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	352
C-910	Sidewall	0-2	10/05/2021	Excavated	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	4310
		0-2	11/09/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	349
C-911	Sidewall	0-2	10/05/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	53.2
C-912	Sidewall	0-2	10/05/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	134
C-913	Sidewall	0-2	10/05/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	62.8
C-914	Sidewall	0-2	10/05/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	265
C-915	Bottom	1	10/05/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	13
C-916	Bottom	1	10/05/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	24.9
C-917	Bottom	1	10/05/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	29.2
C-918	Bottom	1	10/05/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	13.6
C-919	Bottom	1	10/05/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	828
		2.5	10/27/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	395

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-920	Bottom	1	10/05/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	51.4
C-921	Bottom	1	10/05/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	262
C-922	Bottom	1	10/05/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	141
C-923	Bottom	1	10/05/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	51.3
C-924	Bottom	1	10/05/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	334
C-925	Bottom	1	10/05/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	231
C-926	Bottom	1	10/05/2021	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	722
		3	01/13/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	519
C-927	Bottom	1	10/05/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	374
C-928	Bottom	1	10/05/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	212
C-929	Bottom	1	10/05/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	266
C-930	Bottom	1	10/05/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	76.6
C-931	Bottom	1	10/05/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	51.5
C-932	Bottom	1	10/05/2021	Excavated	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	626
		3	01/13/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	187
C-933	Bottom	1	10/05/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	484
C-934	Bottom	1	10/05/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	124
C-935	Bottom	1	10/05/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	166
C-936	Bottom	1	10/05/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	39
C-937	Bottom	1	10/05/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	8.92
C-938	Bottom	1	10/05/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<5.04
C-939	Bottom	1	10/05/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	118
C-940	Bottom	1	10/05/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	260
C-941	Bottom	1	10/05/2021	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	618
		3	01/13/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	497
C-942	Bottom	1	10/05/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	91.9
C-943	Bottom	1	10/05/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	232
C-944	Bottom	1	10/05/2021	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	745
		4.1	01/13/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	995
C-945	Bottom	1	10/05/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	70

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Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-946	Bottom	2	10/06/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	188
C-947	Bottom	2	10/06/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	448
C-948	Bottom	2	10/06/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	273
C-949	Bottom	2	10/06/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	333
C-950	Bottom	2	10/06/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	322
C-951	Bottom	2	10/06/2021	Excavated	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	1510
		3	10/27/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	336
C-952	Bottom	2	10/06/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	484
C-953	Bottom	2	10/06/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	292
C-954	Bottom	2	10/06/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	174
C-955	Bottom	2	10/06/2021	Excavated	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	602
		3	10/27/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	228
C-956	Bottom	2	10/06/2021	Excavated	<0.00202	0.00628	<49.9	<49.9	<49.9	<49.9	664
		2	01/12/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	249
C-957	Bottom	2	10/06/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	365
C-958	Bottom	2	10/06/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	137
C-959	Bottom	2	10/06/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	106
C-960	Bottom	2	10/06/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	73.3
C-961	Bottom	2	10/06/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	274
C-962	Bottom	2	10/06/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	358
C-963	Bottom	2	10/06/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	413
C-964	Bottom	2	10/06/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	69.9
C-965	Bottom	2	10/06/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	448
C-966	Bottom	2	10/06/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	62
C-967	Bottom	2	10/06/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	462
C-968	Bottom	1	10/06/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	56.6
C-969	Bottom	1	10/06/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	80.9
C-970	Bottom	1	10/06/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	34.5
C-971	Bottom	1	10/06/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	62.5
C-972	Bottom	1	10/06/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	107

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-973	Bottom	1	10/06/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	80.5
C-974	Bottom	1	10/06/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	86.6
C-975	Bottom	1	10/06/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	40.6
C-976	Bottom	1	10/06/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	84.8
C-977	Bottom	1	10/06/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	263
C-978	Bottom	1	10/06/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1340
		2	01/12/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	335
C-979	Bottom	1	10/06/2021	Excavated	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	1210
		2	12/14/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	524
C-980	Bottom	1	10/06/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	231
C-981	Bottom	1	10/06/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	224
C-982	Bottom	1	10/06/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	221
C-983	Bottom	1	10/06/2021	Excavated	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	1070
		4.1	01/03/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1350
C-984	Bottom	1	10/06/2021	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	1090
		4.1	12/15/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1330
C-985	Bottom	1	10/06/2021	Excavated	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	1810
		4.1	12/15/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	1510
C-986	Bottom	1	10/06/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	643
		4.1	12/15/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1140
C-987	Bottom	1	10/06/2021	Excavated	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	1090
		4.1	12/15/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	1130
C-988	Bottom	1	10/06/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	577
C-989	Bottom	1	10/06/2021	Excavated	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	662
		4.1	12/15/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	1070
C-990	Bottom	1	10/06/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	927
		4.1	12/15/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	843
C-991	Bottom	1	10/06/2021	Excavated	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	1150
		4.1	01/05/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	781
C-992	Bottom	1	10/06/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	405

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-993	Bottom	1	10/06/2021	Excavated	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	685
		4.1	12/21/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	555
C-994	Bottom	1	10/06/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	226
C-995	Bottom	1	10/06/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	281
C-996	Bottom	1	10/06/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	578
C-997	Bottom	1	10/06/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	133
C-998	Bottom	1	10/06/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	82.9
C-999	Bottom	1	10/06/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	54.2
C-1000	Bottom	1	10/06/2021	Excavated	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	686
		3	01/03/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	448
C-1001	Bottom	1	10/06/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	536
C-1002	Bottom	1	10/06/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	409
C-1003	Bottom	1	10/06/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	475
C-1004	Bottom	1	10/06/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	489
C-1005	Bottom	1	10/06/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	579
C-1006	Bottom	1	10/06/2021	Excavated	<0.00200	0.00322	<49.8	<49.8	<49.8	<49.8	1340
		2	01/20/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	188
C-1007	Bottom	1	10/06/2021	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	1190
		2	01/20/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	54.9
C-1008	Bottom	1	10/06/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1930
		2	01/20/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	3060
		4.1	02/15/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	410
C-1009	Bottom	4.1	10/12/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	1730
C-1010	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	231
C-1011	Bottom	4.1	10/12/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	248
C-1012	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	138
C-1013	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	143
C-1014	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	171
C-1015	Bottom	4.1	10/12/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	79.9
C-1016	Bottom	4.1	10/12/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	445

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-1017	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	3460
C-1018	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	1670
C-1019	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	2600
C-1020	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	3510
C-1021	Bottom	4.1	10/12/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	1110
C-1022	Bottom	4.1	10/12/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	1570
C-1023	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	3130
C-1024	Bottom	4.1	10/12/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1610
C-1025	Bottom	4.1	10/12/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1390
C-1026	Bottom	4.1	10/12/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	114
C-1027	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1160
C-1028	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	2380
C-1029	Bottom	4.1	10/12/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	6100
C-1030	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	2060
C-1031	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	2260
C-1032	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	885
C-1033	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	2820
C-1034	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1280
C-1035	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	3590
C-1036	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	1510
C-1037	Bottom	1.5	10/12/2021	Excavated	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	1400
		4.1	11/18/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	588
C-1038	Bottom	1.5	10/12/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	3440
		4.1	11/18/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	749
C-1039	Bottom	1.5	10/12/2021	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	2410
		4.1	11/18/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	449
C-1040	Bottom	1.5	10/12/2021	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	1930
		4.1	11/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	760
C-1041	Bottom	1.5	10/12/2021	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	4720
		4.1	11/18/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	514

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-1042	Bottom	1.5	10/12/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	2140
		4.1	11/18/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	546
C-1043	Bottom	1.5	10/12/2021	Excavated	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	3250
		4.1	11/18/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	691
C-1044	Bottom	1.5	10/12/2021	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	5040
		4.1	11/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	789
C-1045	Bottom	1.5	10/12/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	2770
		4.1	11/18/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	1050
C-1046	Bottom	1.5	10/12/2021	Excavated	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	9860
		4.1	11/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	958
C-1047	Bottom	1.5	10/12/2021	Excavated	<0.00200	<0.00399	<50.0	72.4	<50.0	72.4	3530
		4.1	11/18/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	368
C-1048	Bottom	1.5	10/12/2021	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	776
		4.1	11/16/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	813
C-1049	Bottom	1.5	10/12/2021	Excavated	<0.00198	0.301	<49.9	<49.9	<49.9	<49.9	1620
		2.5	11/11/2021	Excavated	<0.00202	<0.00403	<49.9	177.0	55.5	177.0	213
		4.1	12/16/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	1050
C-1050	Bottom	1.5	10/12/2021	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1210
		4.1	11/16/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	895
C-1051	Bottom	1.5	10/12/2021	Excavated	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	3840
		2.5	11/11/2021	In-Situ	<0.00200	<0.00399	<50.0	78.0	<50.0	<50.0	150
C-1052	Bottom	1.5	10/12/2021	Excavated	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	3540
		4.1	11/16/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	971
C-1053	Bottom	1.5	10/12/2021	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	4850
		4.1	11/16/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	571
C-1054	Bottom	1.5	10/12/2021	Excavated	0.00282	0.0153	<50.0	<50.0	<50.0	<50.0	2870
		4.1	11/16/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	799
C-1055	Bottom	1.5	10/12/2021	Excavated	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	1610
		4.1	11/16/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	892
C-1056	Bottom	1.5	10/12/2021	Excavated	<0.00202	<0.00404	<49.8	73.1	<49.8	73.1	2280

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-1057	Bottom	4.1	11/16/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	680
		1.5	10/12/2021	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	3990
		4.1	11/16/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	1980
C-1058	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	946
C-1059	Bottom	4.1	10/12/2021	In-Situ	<0.00201	<0.00402	<49.9	75.6	<49.9	75.6	1500
C-1060	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	1320
C-1061	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	1310
C-1062	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1640
C-1063	Bottom	4.1	10/12/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	7080
C-1064	Bottom	4.1	10/12/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1860
C-1065	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	2010
C-1066	Bottom	4.1	10/12/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	3100
C-1067	Bottom	4.1	10/12/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	5370
C-1068	Bottom	4.1	10/12/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	1930
C-1069	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	6590
C-1070	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	3730
C-1071	Bottom	4.1	10/12/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	3260
C-1072	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	1350
C-1073	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	2970
C-1074	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	2920
C-1075	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	3250
C-1076	Bottom	4.1	10/12/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1330
C-1077	Bottom	4.1	10/12/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	1290
C-1078	Bottom	4.1	10/12/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	885
C-1079	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<50.0	50.8	<50.0	50.8	3180
C-1080	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	1600
C-1081	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	635
C-1082	Bottom	4.1	10/12/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	953
C-1083	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	391
C-1084	Bottom	4.1	10/12/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	442

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-1085	Bottom	4.1	10/12/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	1160
C-1086	Bottom	4.1	10/12/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	713
C-1087	Bottom	4.1	10/12/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	832
C-1088	Bottom	4.1	10/12/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	2860
C-1089	Bottom	4.1	10/13/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1260
C-1090	Bottom	4.1	10/13/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1460
C-1091	Bottom	4.1	10/13/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	960
C-1092	Bottom	4.1	10/13/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1940
C-1093	Bottom	4.1	10/13/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	511
C-1094	Bottom	4.1	10/13/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	704
C-1095	Bottom	4.1	10/13/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	805
C-1096	Bottom	4.1	10/13/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	1030
C-1097	Bottom	4.1	10/13/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	310
C-1098	Bottom	4.1	10/13/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	853
C-1099	Bottom	4.1	10/13/2021	In-Situ	<0.00201	<0.00401	<49.8	<49.8	<49.8	<49.8	711
C-1100	Bottom	4.1	10/13/2021	In-Situ	0.00216	0.0225	<49.9	<49.9	<49.9	<49.9	387
C-1101	Bottom	4.1	10/13/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	549
C-1102	Bottom	4.1	10/13/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	404
C-1103	Bottom	4.1	10/13/2021	In-Situ	<0.00201	<0.00401	<49.8	<49.8	<49.8	<49.8	214
C-1104	Bottom	4.1	10/13/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	175
C-1105	Bottom	4.1	10/13/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	110
C-1106	Bottom	4.1	10/13/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	824
C-1107	Bottom	4.1	10/13/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	506
C-1108	Bottom	1.5	10/13/2021	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	819
		2.5	01/19/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	256
C-1109	Bottom	1.5	10/13/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	535
C-1110	Bottom	1.5	10/13/2021	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	855
		2.5	01/19/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	233
C-1111	Bottom	1.5	10/13/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	310
C-1112	Bottom	1.5	10/13/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	247

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
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32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-1113	Bottom	1.5	10/13/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1280
		2.5	01/11/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	247
C-1114	Bottom	1.5	10/13/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	238
C-1115	Bottom	1.5	10/13/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	114
C-1116	Bottom	1.5	10/13/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	345
C-1117	Bottom	1.5	10/13/2021	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	1350
		4.1	12/03/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	966
C-1118	Bottom	1.5	10/13/2021	Excavated	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	924
		3.5	12/01/2021	Excavated	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	868
C-1119	Bottom	4.1	01/11/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	931
		1.5	10/13/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	2730
C-1120	Bottom	4.1	12/03/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	773
		1.5	10/13/2021	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	3000
C-1121	Bottom	4.1	12/03/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	769
		1.5	10/13/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	8720
C-1122	Bottom	3.5	12/01/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	530
		1.5	10/13/2021	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	4600
C-1123	Bottom	2.5	11/18/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	507
		1.5	10/13/2021	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	2660
C-1124	Bottom	4.1	12/03/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	908
		1.5	10/13/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	1880
C-1125	Bottom	4.1	12/03/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	284
		1.5	10/13/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	2320
C-1126	Bottom	4.1	12/03/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	436
		1.5	10/13/2021	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	5770
C-1127	Bottom	4.1	12/03/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	505
		1.5	10/13/2021	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	535
C-1128	Bottom	4.1	12/03/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	655
		1.5	10/13/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	3110
		2.5	11/18/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	536

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32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-1129	Bottom	1.5	10/13/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	6090
		4.1	12/03/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	535
C-1130	Bottom	1.5	10/13/2021	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	3450
		3.5	12/02/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	575
C-1131	Bottom	1.5	10/13/2021	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	8620
		3.5	12/02/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	494
C-1132	Bottom	1.5	10/13/2021	Excavated	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	4320
		4.1	12/03/2021	In-Situ	<0.00200	<0.00400	74	1360	<50.0	1430	520
C-1133	Bottom	1.5	10/13/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	1880
		4.1	12/03/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	773
C-1134	Bottom	1.5	10/13/2021	Excavated	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	2460
		3.5	01/10/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	132.0
C-1135	Bottom	1.5	10/13/2021	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	2500
		2.5	01/10/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	125.0
C-1136	Bottom	1.5	10/13/2021	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	1630
		2.5	01/10/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	147
C-1137	Bottom	1.5	10/13/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	794
		2.5	01/10/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	124
C-1138	Bottom	1.5	10/13/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	145
C-1139	Bottom	1.5	10/13/2021	Excavated	<0.00199	<0.00400	<49.8	<49.8	<49.8	<49.8	1160
		2.5	11/17/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	688
		4.1	01/11/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	520
C-1140	Bottom	1.5	10/13/2021	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	646
		4.1	12/01/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	452
C-1141	Bottom	1.5	10/13/2021	Excavated	<0.00201	<0.00400	<50.0	<50.0	<50.0	<50.0	1210
		4.1	12/01/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	406
C-1142	Bottom	1.5	10/13/2021	Excavated	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	672
		4.1	12/01/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	620
C-1143	Bottom	1.5	10/13/2021	Excavated	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	915
		4.1	12/01/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	943

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-1144	Bottom	1.5	10/13/2021	Excavated	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	787
		4.1	12/01/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1290
C-1145	Bottom	1.5	10/13/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	445
C-1146	Bottom	1.5	10/13/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	99.8
C-1147	Bottom	1.5	10/13/2021	In-Situ	<0.00202	0.00742	<49.9	<49.9	<49.9	<49.9	197
C-1148	Bottom	1.5	10/13/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	245
C-1149	Bottom	1.5	10/13/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	415
C-1150	Bottom	1.5	10/14/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	143
C-1151	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	111
C-1152	Bottom	1.5	10/14/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	27.5
C-1153	Bottom	1.5	10/14/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	78.7
C-1154	Bottom	1.5	10/14/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	47.7
C-1155	Bottom	1.5	10/14/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	138
C-1156	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00390	<49.9	<49.9	<49.9	<49.9	276
C-1157	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	159
C-1158	Bottom	1.5	10/14/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	58.8
C-1159	Bottom	1.5	10/14/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	334
C-1160	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	207
C-1161	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	28.7
C-1162	Bottom	1.5	10/14/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	27.5
C-1163	Bottom	1.5	10/14/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	13.2
C-1164	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	32.8
C-1165	Bottom	1.5	10/14/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	110
C-1166	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	22
C-1167	Bottom	1.5	10/14/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	101
C-1168	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	48.6
C-1169	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00399	<49.8	98.5	<49.8	98.5	77.9
C-1170	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	52.9
C-1171	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	264
C-1172	Bottom	1.5	10/14/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	135

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-1173	Bottom	1.5	10/14/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	370
C-1174	Bottom	1.5	10/14/2021	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	670
		2.5	11/17/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	426
C-1175	Bottom	1.5	10/14/2021	Excavated	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	1430
		2.5	11/17/2021	Excavated	<0.00201	0.00464	<49.8	<49.8	<49.8	<49.8	758
		4.1	01/11/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	415
C-1176	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	193
C-1177	Bottom	1.5	10/14/2021	Excavated	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	777
		4.1	11/30/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1360
C-1178	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	330
C-1179	Bottom	1.5	10/14/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	411
C-1180	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	221
C-1181	Bottom	1.5	10/14/2021	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	633
		4.1	11/30/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	546
C-1182	Bottom	1.5	10/14/2021	In-Situ	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	573
C-1183	Bottom	1.5	10/14/2021	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	1110
		4.1	11/30/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	1170
C-1184	Bottom	1.5	10/14/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	69.3
C-1185	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	267
C-1186	Bottom	1.5	10/14/2021	Excavated	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	795
		4.1	11/30/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	898
C-1187	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	417
C-1188	Bottom	1.5	10/14/2021	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	980
		2.5	11/17/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	406
C-1189	Bottom	1.5	10/14/2021	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	3130
		4.1	01/11/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	419
C-1190	Bottom	1.5	10/14/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	467
C-1191	Bottom	1.5	10/14/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	291
C-1192	Bottom	1.5	10/14/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	63.6
C-1193	Bottom	1.5	10/14/2021	In-Situ	<0.00202	0.0103	<49.8	<49.8	<49.8	<49.8	402

Table 2
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32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-1194	Bottom	1.5	10/14/2021	In-Situ	<0.00200	0.00483	<50.0	<50.0	<50.0	<50.0	232
C-1195	Bottom	1.5	10/14/2021	In-Situ	<0.00201	0.0676	<49.8	<49.8	<49.8	<49.8	206
C-1196	Bottom	1.5	10/14/2021	In-Situ	<0.00199	0.0202	<49.9	<49.9	<49.9	<49.9	246
C-1197	Bottom	1.5	10/20/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	308
C-1198	Bottom	1.5	10/20/2021	In-Situ	<0.00202	<0.00404	<49.9	163.0	<49.9	163.0	166
		2.5	01/18/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	153
C-1199	Bottom	1.5	10/20/2021	In-Situ	<0.00202	<0.00404	<49.9	69.2	<49.9	69.2	145
C-1200	Bottom	1.5	10/20/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	253
C-1201	Bottom	1.5	10/20/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	292
C-1202	Bottom	1.5	10/20/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	283
C-1203	Bottom	1.5	10/20/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	371
C-1204	Bottom	1.5	10/20/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	368
C-1205	Bottom	1.5	10/20/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	385
C-1206	Bottom	1.5	10/20/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	330
C-1207	Bottom	1.5	10/20/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	500
C-1208	Bottom	1.5	10/20/2021	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	851
		2.5	01/18/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	345
C-1209	Bottom	1.5	10/20/2021	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1000
		2.5	01/18/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	312
C-1210	Bottom	1.5	10/20/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	711
		3.5	01/18/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	325
C-1211	Bottom	1.5	10/20/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	495
C-1212	Bottom	1.5	10/20/2021	In-Situ	<0.00198	<0.00396	<50.0	151.0	<50.0	151.0	395
		2.5	01/18/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	779
		3.5	01/25/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	76.3
C-1213	Bottom	1.5	10/20/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	446
C-1214	Bottom	1.5	10/20/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	517
C-1215	Bottom	1.5	10/20/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	450
C-1216	Bottom	1.5	10/20/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	313
C-1217	Bottom	1.5	10/20/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	214

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32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-1218	Sidewall	0-1.5	10/21/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	224
C-1219	Sidewall	0-1.5	10/21/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	291
C-1220	Sidewall	0-1.5	10/21/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	311
C-1221	Sidewall	0-1.5	10/21/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	393
C-1222	Bottom	2	10/21/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	383
C-1223	Bottom	2	10/21/2021	Excavated	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	826
		3	01/17/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	303
		2	10/21/2021	Excavated	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	867
C-1224	Bottom	3	01/13/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	243
		2	10/21/2021	Excavated	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	1110
		3	01/13/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	462
C-1225	Bottom	2	10/21/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	214
C-1226	Bottom	2	10/21/2021	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1340
		4.1	01/13/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	148
		2	10/21/2021	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	717
C-1227	Bottom	3	01/13/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	412
		2	10/21/2021	Excavated	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	967
		3	01/13/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	242
C-1228	Bottom	2	10/21/2021	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	2630
		4.1	01/17/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	302
		2	10/21/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	653
C-1229	Bottom	4.1	01/17/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	314
		2	10/21/2021	Excavated	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	625
		4.1	01/17/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	698
C-1230	Bottom	2	10/21/2021	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1070
		4.1	01/17/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	709
		2	10/21/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	306
C-1231	Bottom	2	10/21/2021	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	848
C-1232	Bottom	3	01/13/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	134
		2	10/21/2021	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	1290
		2	10/21/2021	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	

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32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
		3	01/13/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	152
C-1237	Sidewall	0-2	10/21/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	146
C-1238	Sidewall	0-1.5	10/21/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	102
C-1239	Sidewall	0-1.5	10/21/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	224
C-1240	Sidewall	0-2	10/21/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	13.8
C-1241	Sidewall	0-1.5	10/21/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	157
C-1242	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	458
C-1243	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	698
		0-1.5	01/25/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	131
C-1244	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	161
C-1245	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	220
C-1246	Sidewall	0-1	11/15/2021	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	882
		1-4.1	01/04/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	176
C-1246.02	Sidewall	0-4.1	12/22/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	212
C-1247	Sidewall	0-4.1	11/15/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1660
		0-4.1	01/20/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	231
C-1248	Sidewall	0-4.1	11/15/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	192
C-1249	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	398
C-1250	Sidewall	0-4.1	11/15/2021	Excavated	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	2100
		0-4.1	01/07/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	9.5
C-1251	Sidewall	0-4.1	11/15/2021	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	2380
		0-4.1	01/06/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	146
C-1252	Sidewall	0-4.1	11/15/2021	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	1470
		0-4.1	12/21/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	290
C-1253	Sidewall	0-4.1	11/15/2021	Excavated	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	695
		0-4.1	12/21/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	109
C-1254	Sidewall	0-4.1	11/15/2021	Excavated	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	1200
		0-4.1	12/21/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	303
C-1255	Sidewall	0-4.1	11/15/2021	Excavated	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	3440
		0-4.1	01/06/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	83.6

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
C-1256	Sidewall	0-4.1	11/15/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1750
		1-4.1	01/06/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	157
C-1257	Sidewall	0-4.1	11/15/2021	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	2890
		0-4.1	01/06/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	272
C-1258	Sidewall	0-4.1	11/15/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	583
C-1259	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	334
C-1260	Sidewall	0-4.1	11/15/2021	Excavated	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	1410
		0-4.1	01/19/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	365
C-1261	Sidewall	0-1	11/15/2021	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	2710
		0-1	01/20/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	141
C-1262	Sidewall	0-1	11/15/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	441
C-1263	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	179
C-1264	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	418
C-1265	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	97.5
C-1266	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	231
C-1267	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	60.3
C-1268	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	340
C-1269	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	521
C-1270	Sidewall	0-1.5	11/15/2021	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	641
		0-1.5	01/11/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	30
C-1271	Sidewall	0-1.5	11/15/2021	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1750
		0-1.5	01/11/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	242
C-1272	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	388
C-1273	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	517
C-1274	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	124
C-1275	Sidewall	0-1.5	11/15/2021	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	5130

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Inc., Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					10	50	100/2,500			600/10,000	
		0-1.5	01/12/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	52.5
C-1276	Sidewall	0-1.5	11/15/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	430
C-1277	Bottom	1.5	11/16/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	235
C-1278	Bottom	1.5	11/16/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	290
C-1279	Bottom	1.5	11/16/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	250
C-1280	Bottom	1.5	11/16/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	113
C-1281	Bottom	1.5	11/16/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	127
C-1282	Bottom	1.5	11/16/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	197
C-1283	Bottom	1.5	11/16/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	230
C-1284	Bottom	1.5	11/16/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	453
C-1285	Bottom	1.5	11/16/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	387
C-1286	Bottom	1.5	11/16/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	99.2
C-1287	Bottom	1.5	11/16/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	270
C-1288	Bottom	1.5	11/16/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	390
C-1289	Bottom	4.1	01/03/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	700
C-1290	Bottom	4.1	01/04/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	474
C-1291	Bottom	4.1	01/05/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	598
C-1292	Bottom	4.1	01/05/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	622
C-1293	Bottom	1	01/04/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	306
C-1294	Bottom	1	01/04/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	175
C-1275-2	Sidewall	0-4.1	01/12/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	351

Notes:

Analysis performed by Eurofins-Xenco, by EPA-846 Methods 8021B (BTEX), 8015M (TPH), and Method 300 (chloride)

mg/Kg: milligrams per kilogram; equivalent to parts per million (ppm)

<: below analytical reporting limit

Bold and Highlighted exceeds NMOCD closure criteria

Table 3
Backfill Sample Analytical Data Summary
Select Energy Services, Inc. Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Collection Date	Material	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	>C10 - C28 (mg/Kg)	>C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
C-1	09/24/2021	Topsoil	In-situ	<0.00198	<0.00200	<50.0	<50.0	<50.0	<50.0	10.7
C-2	09/24/2021	Topsoil	In-situ	<0.00201	<0.00200	<49.9	<49.9	<49.9	<50.0	13.3
C-3	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	9.44
C-4	09/24/2021	Topsoil	In-situ	<0.00196	<0.00200	<49.9	<49.9	<49.9	<50.0	12.8
C-5	09/24/2021	Topsoil	In-situ	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	12.8
C-6	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	12.5
C-7	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	18.4
C-8	09/24/2021	Topsoil	In-situ	0.00534	0.00534	<49.8	<49.8	<49.8	<50.0	17.2
C-9	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	11.3
C-10	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	13.4
C-11	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	12.4
C-12	09/24/2021	Topsoil	In-situ	<0.00199	0.00220	<49.9	<49.9	<49.9	<50.0	12.6
C-13	09/24/2021	Topsoil	In-situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	14.1
C-14	09/24/2021	Topsoil	In-situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	17.5
C-15	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	96.8
C-16	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	20.2
C-17	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<50.0	19.7
C-18	09/24/2021	Topsoil	In-situ	<0.00201	<0.00200	<49.8	<49.8	<49.8	<50.0	15.7
C-19	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	16.5
C-20	09/24/2021	Topsoil	In-situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	14
C-21	09/24/2021	Topsoil	In-situ	<0.00199	<0.00200	<49.8	<49.8	<49.8	<50.0	13.5
C-22	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	23.3
C-23	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<50.0	8.66
C-24	09/24/2021	Topsoil	In-situ	<0.00198	<0.00200	<50.0	<50.0	<50.0	<50.0	17.8
C-25	09/24/2021	Topsoil	In-situ	<0.00202	<0.00200	<50.0	<50.0	<50.0	<50.0	15.8
C-26	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	14.2
C-27	09/24/2021	Topsoil	In-situ	<0.00198	<0.00200	<49.8	<49.8	<49.8	<50.0	13.9
C-28	09/24/2021	Topsoil	In-situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	14.2

Table 3
Backfill Sample Analytical Data Summary
Select Energy Services, Inc. Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Collection Date	Material	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	>C10 - C28 (mg/Kg)	>C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
C-29	09/24/2021	Topsoil	In-situ	<0.00202	<0.00200	<49.8	<49.8	<49.8	<50.0	13.3
C-30	09/24/2021	Topsoil	In-situ	<0.00199	<0.00200	<50.0	<50.0	<50.0	<50.0	17.5
Cal-1	10/08/2021	Caliche	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	14.9
Cal-2	10/08/2021	Caliche	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	15.1
Cal-3	10/08/2021	Caliche	In-situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	23.3
Cal-4	10/08/2021	Caliche	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	22.5
Cal-5	10/08/2021	Caliche	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	17.1
Cal-6	10/08/2021	Caliche	In-situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	19.4
Cal-7	10/08/2021	Caliche	In-situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	15.8
Cal-8	10/08/2021	Caliche	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	13.3
Cal-9	10/08/2021	Caliche	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	16.1
Cal-10	10/08/2021	Caliche	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	10.6
Cal-11	10/08/2021	Caliche	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	18.2
Cal-12	10/08/2021	Caliche	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	13.7
Cal-13	10/08/2021	Caliche	In-situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	9.95
Cal-14	10/08/2021	Caliche	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	9.45
Cal-15	10/08/2021	Caliche	In-situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	16.6
Cal-16	10/08/2021	Caliche	In-situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	17.9
Cal-17	10/08/2021	Caliche	In-situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	16.5
Cal-18	10/08/2021	Caliche	In-situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	15.9
Cal-19	10/08/2021	Caliche	In-situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	30.1
Cal-20	10/08/2021	Caliche	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	12.1
Cal-21	10/08/2021	Caliche	In-situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	15.1
Cal-22	10/08/2021	Caliche	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	15.2
Cal-23	10/08/2021	Caliche	In-situ	<0.00249	<0.00498	<49.8	<49.8	<49.8	<49.8	20
Cal-24	10/08/2021	Caliche	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	17.3
Cal-25	10/08/2021	Caliche	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	17.2
BF-31	01/24/2021	Topsoil	In-situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	34

Table 3
Backfill Sample Analytical Data Summary
Select Energy Services, Inc. Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Collection Date	Material	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	>C10 - C28 (mg/Kg)	>C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
BF-32	01/24/2021	Topsoil	In-situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	19.8
BF-33	01/24/2021	Topsoil	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	6.14
BF-34	01/24/2021	Topsoil	In-situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	12.4
BF-35	01/24/2021	Topsoil	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	13.4
BF-36	01/24/2021	Topsoil	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	15.3
BF-37	01/24/2021	Topsoil	In-situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	12.4
BF-38	01/24/2021	Topsoil	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	12.1
BF-39	01/24/2021	Topsoil	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	5.32
BF-40	01/24/2021	Topsoil	In-situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	5.67
BF-41	01/24/2021	Topsoil	In-situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<4.95
BF-42	01/24/2021	Topsoil	In-situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<5.04
BF-43	01/24/2021	Topsoil	In-situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<4.99
BF-44	01/24/2021	Topsoil	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	5.37
BF-45	01/24/2021	Topsoil	In-situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<4.97
BF-46	01/24/2021	Topsoil	In-situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	7.42
BF-47	01/24/2021	Topsoil	In-situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	8.67
BF-48	01/24/2021	Topsoil	In-situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	8.19
BF-49	01/24/2021	Topsoil	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	9.54
BF-50	01/24/2021	Topsoil	In-situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<4.99
BF-51	01/28/2021	Caliche	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	187
BF-52	01/28/2021	Caliche	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	117
BF-53	01/28/2021	Caliche	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	111
BF-54	01/28/2021	Caliche	In-situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	116
BF-55	01/28/2021	Caliche	In-situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	110
BF-56	01/28/2021	Caliche	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	108
BF-57	01/28/2021	Caliche	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	108
BF-58	01/28/2021	Caliche	In-situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	117
BF-59	01/28/2021	Caliche	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	112

Table 3
Backfill Sample Analytical Data Summary
Select Energy Services, Inc. Palmio AST
Eddy County, New Mexico
32.66551° North and -104.14693° West

Sample ID	Collection Date	Material	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	>C10 - C28 (mg/Kg)	>C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
BF-60	01/28/2021	Caliche	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	102

Notes:

Analysis performed by Eurofins-Xenco, by EPA-846 Methods 8021B (BTEX), 8015M (TPH), and Method 300 (chloride)

mg/Kg: milligrams per kilogram; equivalent to parts per million (ppm)

<: below analytical reporting limit

Bold and Highlighted exceeds NMOCD closure criteria

Figures

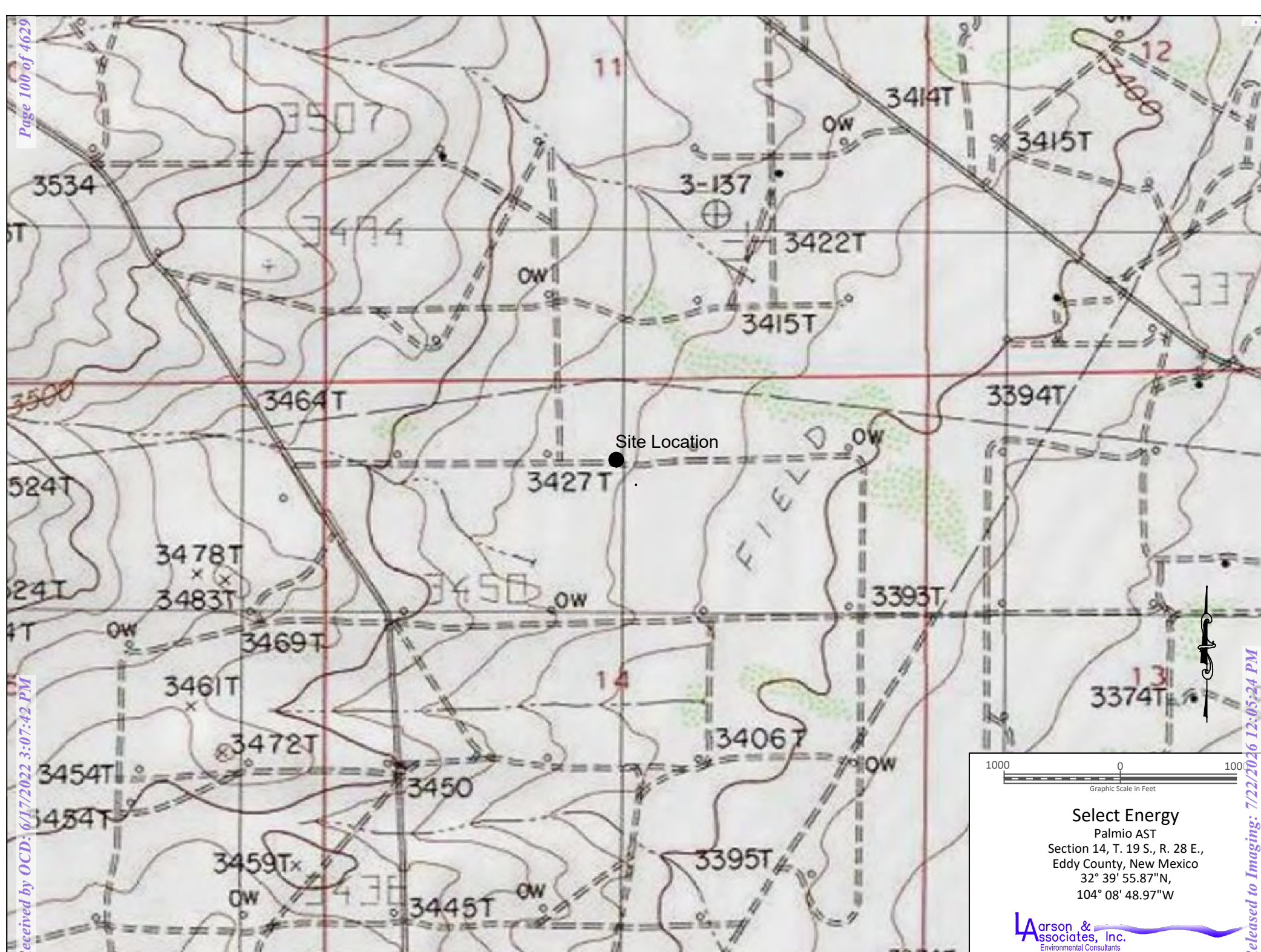


Figure 1 - Topographic Map

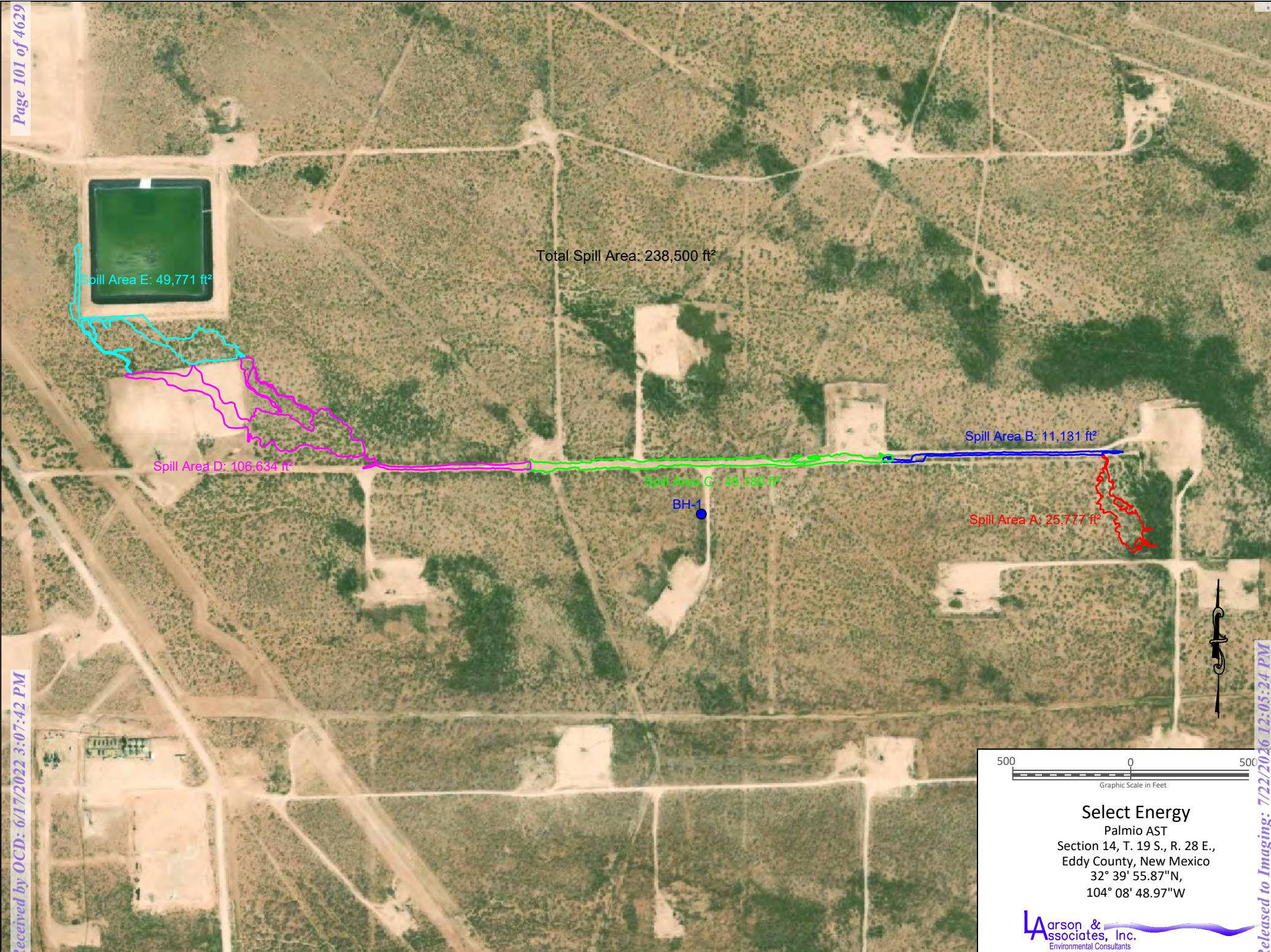


Figure 2 - Aerial Map Showing Spill Areas



Figure 3a - Aerial Map Showing Spill Area A and B



Figure 3b - Aerial Map Showing Spill Area C

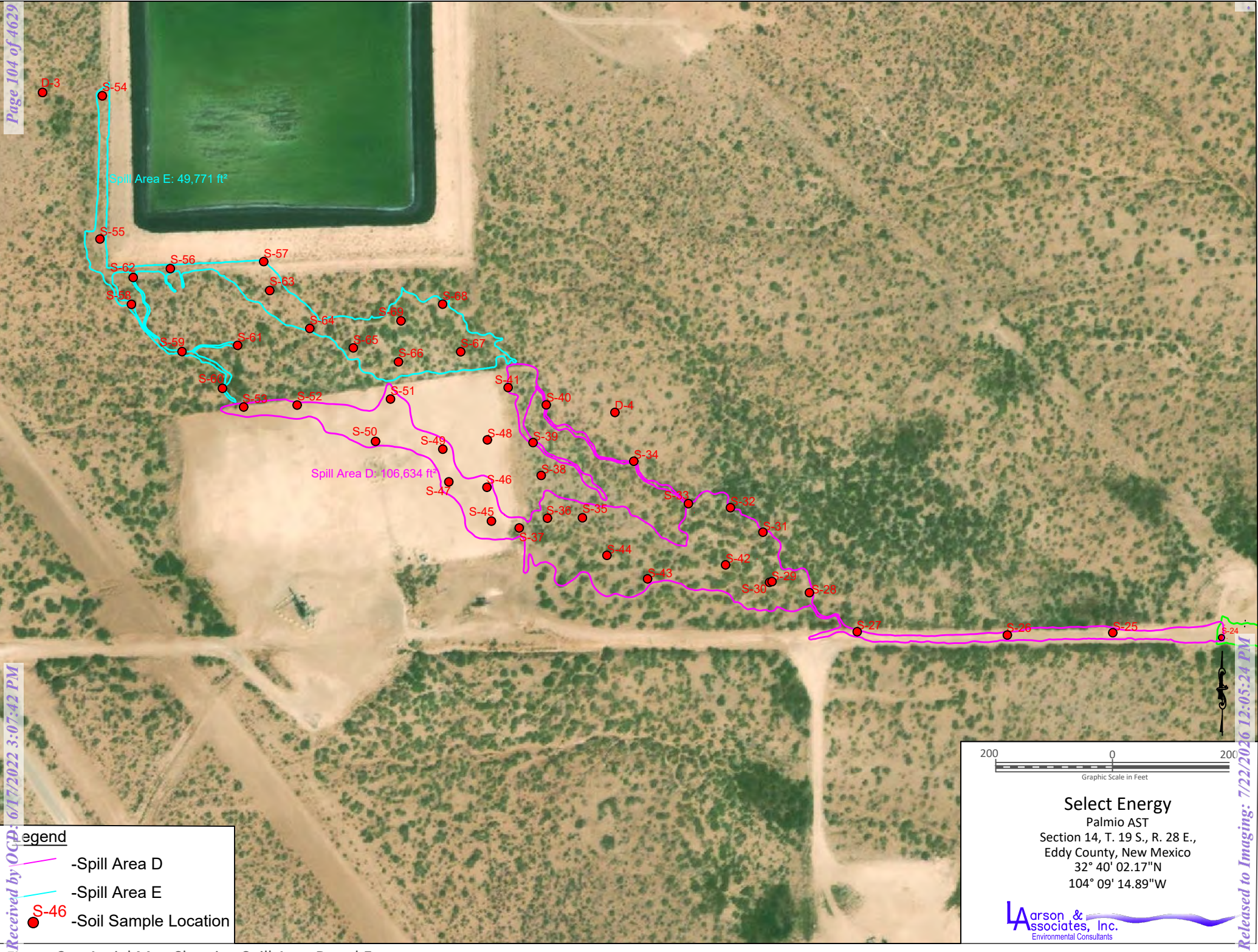


Figure 3c - Aerial Map Showing Spill Area D and E

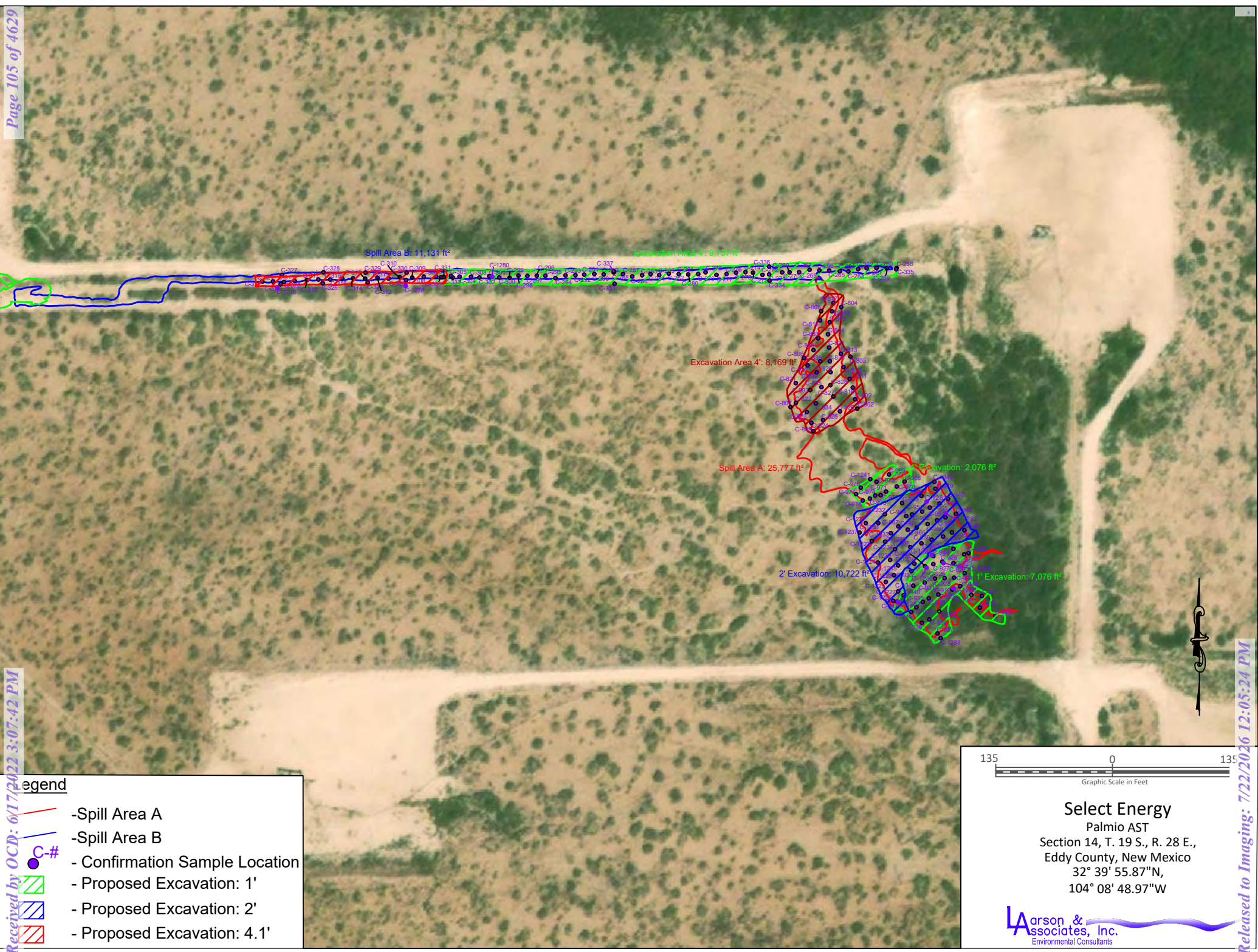


Figure 4a - Aerial Map Showing Excavation Areas for Spill A and B and Confirmation Samples

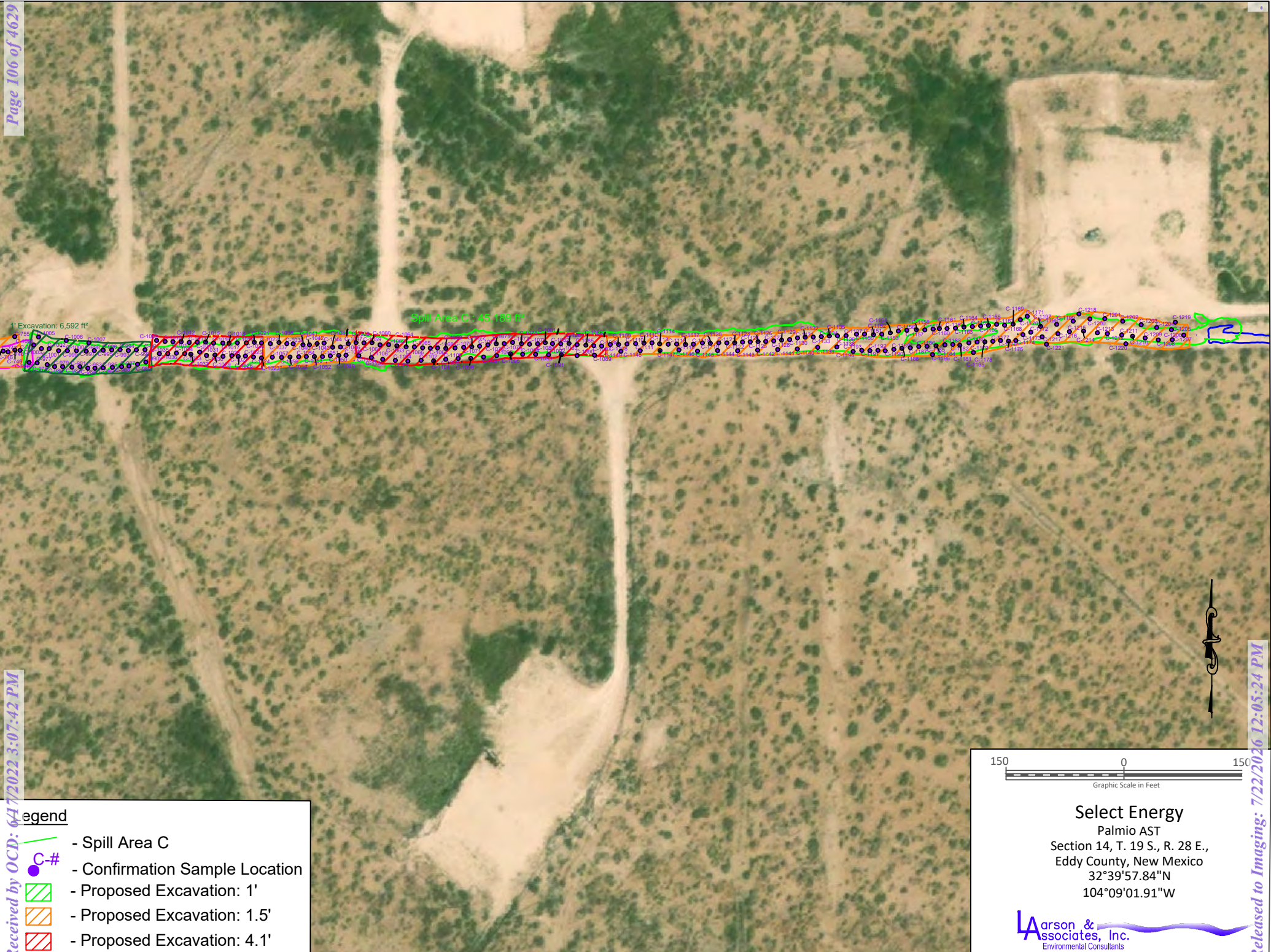
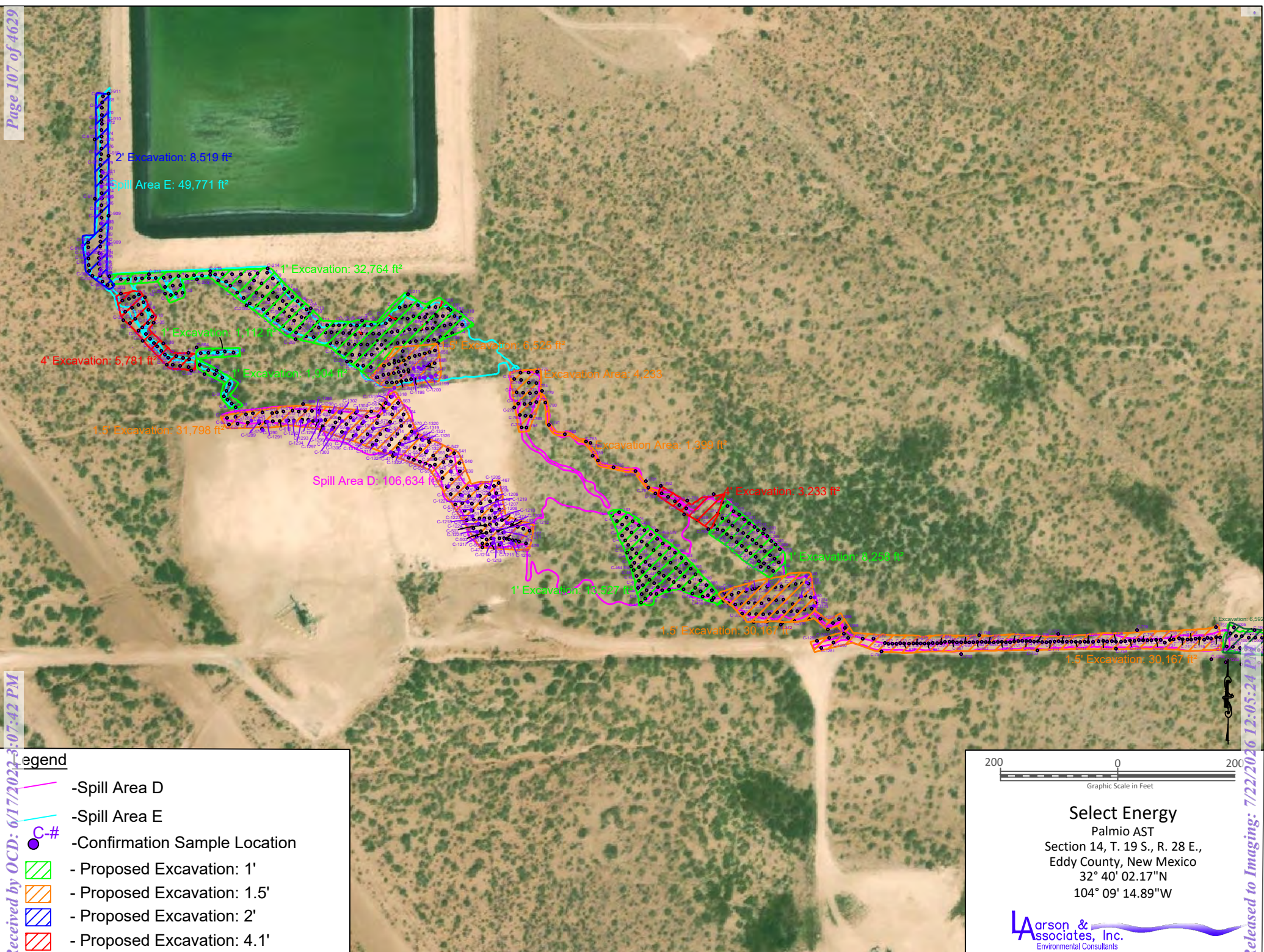


Figure 4b - Aerial Map Showing Excavation Areas for Spill C and Confirmation Samples



Legend

- Spill Area D
- Spill Area E
- C-#
- Proposed Excavation: 1'
- Proposed Excavation: 1.5'
- Proposed Excavation: 2'
- Proposed Excavation: 4.1'



Select Energy

Palmio AST
 Section 14, T. 19 S., R. 28 E.,
 Eddy County, New Mexico
 32° 40' 02.17"N
 104° 09' 14.89"W

Larson & Associates, Inc.
 Environmental Consultants

Figure 4c - Aerial Map Showing Excavation Areas for Spill D and E and Confirmation Samples

Appendix A
Initial C-141 and Initial Summary

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 31987

QUESTIONS

Operator: SELECT ENERGY SERVICES, LLC 201 California Street Gainesville, TX 76240	OGRID: 289068
	Action Number: 31987
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all of the questions in this group.</i>	
Site Name	Apache Palomino AST
Date Release Discovered	05/22/2021
Surface Owner	Private

Incident Details	
<i>Please answer all of the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Pit (Specify) Produced Water Spilled: 550 BBL Recovered: 0 BBL Lost: 550 BBL]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Not answered.
If YES, was immediate notice given to the OCD, to whom	Not answered.
If YES, was immediate notice given to the OCD, when	Not answered.
If YES, was immediate notice given to the OCD, by what means (phone, email, etc)	Not answered.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
<i>Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.</i>	

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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 31987

ACKNOWLEDGMENTS

Operator: SELECT ENERGY SERVICES, LLC 201 California Street Gainesville, TX 76240	OGRID: 289068
	Action Number: 31987
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☒	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☒	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
☒	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
☒	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 31987

CONDITIONS

Operator: SELECT ENERGY SERVICES, LLC 201 California Street Gainesville, TX 76240	OGRID: 289068
	Action Number: 31987
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
system	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	6/15/2021

Appendix B
NMOCD Communications

Daniel St. Germain

From: Daniel St. Germain
Sent: Tuesday, November 23, 2021 12:14 PM
To: robert.hamlet@state.nm.us; victoria.venegas@state.nm.us
Cc: hbutler@selectenergy.com; Robert Nelson; Mark Larson
Subject: Backfill Notification - Palmio AST (nAPP2116630183)
Attachments: Figure 4a - Focused Aerial Map Showing Excavations and Confirmation Samples for Spill E & D.pdf; Figure 4f - Focused Aerial Map Showing Excavations and Confirmation Samples for Spill E.pdf; Figure 4b - Focused Aerial Map Showing Excavations and Confirmation Samples for Spill D.pdf; Figure 4d - Focused Aerial Map Showing Excavations for Spill Area D.pdf; Table 2 Confirmation Soil Sample Analytical Data Summary.pdf

Hello Mr. Hamlet and Ms. Venegas,

Larson & Associates, Inc. (LAI), on behalf of Select Energy, submits the attached confirmation (post remediation) laboratory analytical data and drawing to the New Mexico Oil Conservation Division (NMOCD) District 2 to provide two (2) business days notification prior to backfilling portions of the excavation at the Palmio AST site in Eddy County, New Mexico (nAPP2116630183). Please feel free to contact Halie Butler with Select Energy at 281-467-3153 or hbutler@selectenergy.com, Mark Larson (432) 556-8656 or mark@laenvironmental.com, , Robert Nelson (432) 664-4804 or nelson@laenvironmental.com or me with any questions or concerns.

Thank you,

Daniel St. Germain
Geologist
Office: (432) 687-0901
Cell: (432) 664-5357
dstgermain@laenvironmental.com



Appendix C
Karst Potential Map



Appendix D

Boring Logs

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 10:55 MST Finish: 12:45 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS		
					PPM X _____										NUMBER	PID READING	RECOVERY	DEPTH	BACKGROUND PID READING	
					2	4	6	8	10	12	14	16	18	SOIL : _____ PPM						SOIL : _____ PPM
	0	Caliche, 7.5YR 8/2, Pinkish White, Well Cemented, Sub Angular	Caliche																	
	5	Caliche, 7.5YR 8/4, Pink, Fine with Moderate Sorting to Well, Few Pieces of Well Cemented	SW - SM																	
	10	Caliche, Sub Angular to Sub Rounded, Sand to Silty Sand	SW - SC																	
	15	7.5YR 7/4, Light Reddish Brown, Sand to Clayey Sand, Angular to Sub Angular, Moderately Sorted with Some Pieces of Well Cemented Caliche	SW - SC																	
	20	Fine Sand, 7.5YR 6/4, Light Reddish Brown, Angular to Sub Angular, Well to Moderate Sorting, Well Graded, Well Graded Sand with Silt	SW																	
	25		SW																	
	30		SW																	
	35		SW																	
	40		SW																	
	45	Water Sidewalls Injected Falling	SW																	
	50		SW																	
	55		SW																	
	60		SW																	
	65	Mud at 67.45																		

☐ ONE CONTINUOUS AUGER SAMPLER

☐ STANDARD PENETRATION TEST

☐ UNDISTURBED SAMPLE

☐ WATER TABLE (24 HRS)

WATER TABLE (TIME OF BORING)

LABORATORY TEST LOCATION

PENETROMETER (TONS/ SQ. FT)

NO RECOVERY

JOB NUMBER : Select Energy/ 21-0105-02HOLE DIAMETER : 5 1/4"LOCATION : Palmio AST - Eddy County, NMLAI GEOLOGIST : T. PetersDRILLING CONTRACTOR : SDCDRILLING METHOD : Air Rotary
Larson & Associates, Inc.
Environmental Consultants
DRILL DATE :
6/22/2021BORING NUMBER :
BH-1

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 10:55 MST Finish: 12:45 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE		REMARKS		
					PPM X _____										NUMBER	PID READING		RECOVERY	DEPTH
					2	4	6	8	10	12	14	16	18						
	70																		
	75		SW															75	
	80																	80	
	95																	95	
	100		SW															100	
	105																	105	
	110	TD: 110'																110	
	115																	115	
	120																	120	

☐ ONE CONTINUOUS AUGER SAMPLER

☐ STANDARD PENETRATION TEST

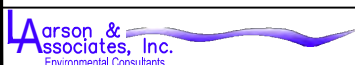
☐ UNDISTURBED SAMPLE

☐ WATER TABLE (24 HRS)

 WATER TABLE (TIME OF BORING)

 LABORATORY TEST LOCATION

 PENETROMETER (TONS/ SQ. FT)

 NR NO RECOVERY
JOB NUMBER : Select Energy/ 21-0105-02HOLE DIAMETER : 5 1/4"LOCATION : Palmio AST - Eddy County, NMLAI GEOLOGIST : T. PetersDRILLING CONTRACTOR : SDCDRILLING METHOD : Air Rotary
 DRILL DATE :
6/22/2021

 BORING NUMBER :
BH-1

Appendix E
Laboratory Reports

Delineation Soil Samples

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Palmio AST
Project Number: 21-0105-02
Location: NM
Lab Order Number: 1E26004



NELAP/TCEQ # T104704516-17-8

Report Date: 05/27/21

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 @ 0.5'	1E26004-01	Soil	05/25/21 12:01	05-26-2021 08:56
S-1 @ 1'	1E26004-02	Soil	05/25/21 12:02	05-26-2021 08:56
S-2 @ 0.5'	1E26004-03	Soil	05/25/21 12:03	05-26-2021 08:56
S-2 @ 1'	1E26004-04	Soil	05/25/21 12:04	05-26-2021 08:56
S-3 @ 0.5'	1E26004-05	Soil	05/25/21 12:05	05-26-2021 08:56
S-3 @ 1'	1E26004-06	Soil	05/25/21 12:06	05-26-2021 08:56
S-4 @ 0.5'	1E26004-07	Soil	05/25/21 12:07	05-26-2021 08:56
S-4 @ 1'	1E26004-08	Soil	05/25/21 12:08	05-26-2021 08:56
S-5 @ 0.5'	1E26004-09	Soil	05/25/21 12:09	05-26-2021 08:56
S-5 @ 1'	1E26004-10	Soil	05/25/21 12:09	05-26-2021 08:56
S-6 @ 0.5'	1E26004-11	Soil	05/25/21 12:10	05-26-2021 08:56
S-6 @ 1'	1E26004-12	Soil	05/25/21 12:11	05-26-2021 08:56
S-7 @ 0.5'	1E26004-13	Soil	05/25/21 12:12	05-26-2021 08:56
S-7 @ 1'	1E26004-14	Soil	05/25/21 12:12	05-26-2021 08:56
S-8 @ 0.5'	1E26004-15	Soil	05/25/21 12:13	05-26-2021 08:56
S-8 @ 1'	1E26004-16	Soil	05/25/21 12:14	05-26-2021 08:56
S-9 @ 0.5'	1E26004-17	Soil	05/25/21 12:15	05-26-2021 08:56
S-9 @ 1'	1E26004-18	Soil	05/25/21 12:16	05-26-2021 08:56

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-1 @ 0.5'
1E26004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00119	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	11100	29.8	mg/kg dry	25	P1E2609	05/26/21	05/26/21	EPA 300.0	
% Moisture	16.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: 1-Chlorooctane		99.1 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	05/26/21	05/26/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-1 @ 1'
1E26004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1570	5.68	mg/kg dry	5	P1E2609	05/26/21	05/26/21	EPA 300.0	
% Moisture	12.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/26/21	05/26/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2 @ 0.5'
1E26004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00116	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6550	29.1	mg/kg dry	25	P1E2609	05/26/21	05/26/21	EPA 300.0	
% Moisture	14.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	05/26/21	05/26/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2 @ 1'
1E26004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1910	5.68	mg/kg dry	5	P1E2609	05/26/21	05/26/21	EPA 300.0	
% Moisture	12.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/26/21	05/26/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-3 @ 0.5'
1E26004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1750	5.38	mg/kg dry	5	P1E2609	05/26/21	05/26/21	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/26/21	05/26/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-3 @ 1'
1E26004-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	523	1.06	mg/kg dry	1	P1E2609	05/26/21	05/26/21	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/26/21	05/26/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-4 @ 0.5'
1E26004-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4830	27.5	mg/kg dry	25	P1E2609	05/26/21	05/26/21	EPA 300.0	
% Moisture	9.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/26/21	05/26/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-4 @ 1'
1E26004-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.8 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	970	1.10	mg/kg dry	1	P1E2609	05/26/21	05/26/21	EPA 300.0	
% Moisture	9.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/26/21	05/26/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-5 @ 0.5'
1E26004-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9400	28.1	mg/kg dry	25	P1E2609	05/26/21	05/26/21	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	05/26/21	05/26/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-5 @ 1'
1E26004-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	689	1.01	mg/kg dry	1	P1E2609	05/26/21	05/26/21	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/26/21	05/26/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-6 @ 0.5'
1E26004-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.3 %	80-120		P1E2604	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4150	10.8	mg/kg dry	10	P1E2609	05/26/21	05/27/21	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P1E2603	05/26/21	05/26/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/26/21	05/26/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-6 @ 1'
1E26004-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.6 %	80-120		P1E2608	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	80-120		P1E2608	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1950	5.56	mg/kg dry	5	P1E2609	05/26/21	05/27/21	EPA 300.0	
% Moisture	10.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	05/26/21	05/27/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 @ 0.5'
1E26004-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.6 %	80-120		P1E2608	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	80-120		P1E2608	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7390	27.5	mg/kg dry	25	P1E2609	05/26/21	05/27/21	EPA 300.0	
% Moisture	9.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/26/21	05/27/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 @ 1'

1E26004-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	80-120		P1E2608	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P1E2608	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6420	28.1	mg/kg dry	25	P1E2609	05/26/21	05/27/21	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	05/26/21	05/27/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-8 @ 0.5'
1E26004-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00116	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	80-120		P1E2608	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.1 %	80-120		P1E2608	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	668	1.16	mg/kg dry	1	P1E2609	05/26/21	05/27/21	EPA 300.0	
% Moisture	14.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	05/26/21	05/27/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-8 @ 1'
1E26004-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00116	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P1E2608	05/26/21	05/26/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	80-120		P1E2608	05/26/21	05/26/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.6 %	80-120		P1E2608	05/26/21	05/26/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1450	5.81	mg/kg dry	5	P1E2609	05/26/21	05/27/21	EPA 300.0	
% Moisture	14.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	05/26/21	05/27/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-9 @ 0.5'
1E26004-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2608	05/26/21	05/27/21	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2608	05/26/21	05/27/21	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2608	05/26/21	05/27/21	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2608	05/26/21	05/27/21	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2608	05/26/21	05/27/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.5 %	80-120		P1E2608	05/26/21	05/27/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	80-120		P1E2608	05/26/21	05/27/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	334	1.09	mg/kg dry	1	P1E2609	05/26/21	05/27/21	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/26/21	05/27/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

S-9 @ 1'
1E26004-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2608	05/26/21	05/27/21	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2608	05/26/21	05/27/21	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2608	05/26/21	05/27/21	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2608	05/26/21	05/27/21	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2608	05/26/21	05/27/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	80-120		P1E2608	05/26/21	05/27/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P1E2608	05/26/21	05/27/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	858	1.09	mg/kg dry	1	P1E2609	05/26/21	05/27/21	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1E2701	05/27/21	05/27/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P1E2603	05/26/21	05/27/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/26/21	05/27/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2604 - * DEFAULT PREP *****

Blank (P1E2604-BLK1)

Prepared & Analyzed: 05/26/21

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.5	80-120			

LCS (P1E2604-BS1)

Prepared & Analyzed: 05/26/21

Benzene	0.0984	0.00100	mg/kg wet	0.100		98.4	70-130			
Toluene	0.0981	0.00100	"	0.100		98.1	70-130			
Ethylbenzene	0.0931	0.00100	"	0.100		93.1	70-130			
Xylene (p/m)	0.205	0.00200	"	0.200		103	70-130			
Xylene (o)	0.0920	0.00100	"	0.100		92.0	70-130			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.8	80-120			

LCS Dup (P1E2604-BSD1)

Prepared & Analyzed: 05/26/21

Benzene	0.0876	0.00100	mg/kg wet	0.100		87.6	70-130	11.7	20	
Toluene	0.0890	0.00100	"	0.100		89.0	70-130	9.78	20	
Ethylbenzene	0.0823	0.00100	"	0.100		82.3	70-130	12.3	20	
Xylene (p/m)	0.179	0.00200	"	0.200		89.7	70-130	13.4	20	
Xylene (o)	0.0820	0.00100	"	0.100		82.0	70-130	11.6	20	
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			

Calibration Blank (P1E2604-CCB1)

Prepared & Analyzed: 05/26/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	80-120			

Permian Basin Environmental Lab, L.P.

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Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

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BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2604 - * DEFAULT PREP *****

Calibration Blank (P1E2604-CCB2)

Prepared & Analyzed: 05/26/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.8	80-120			

Calibration Blank (P1E2604-CCB3)

Prepared & Analyzed: 05/26/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		94.9	80-120			

Calibration Check (P1E2604-CCV1)

Prepared & Analyzed: 05/26/21

Benzene	0.0909	0.00100	mg/kg wet	0.100		90.9	80-120			
Toluene	0.0879	0.00100	"	0.100		87.9	80-120			
Ethylbenzene	0.0877	0.00100	"	0.100		87.7	80-120			
Xylene (p/m)	0.176	0.00200	"	0.200		88.1	80-120			
Xylene (o)	0.0846	0.00100	"	0.100		84.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.3	75-125			

Calibration Check (P1E2604-CCV2)

Prepared & Analyzed: 05/26/21

Benzene	0.0886	0.00100	mg/kg wet	0.100		88.6	80-120			
Toluene	0.0880	0.00100	"	0.100		88.0	80-120			
Ethylbenzene	0.0855	0.00100	"	0.100		85.5	80-120			
Xylene (p/m)	0.173	0.00200	"	0.200		86.5	80-120			
Xylene (o)	0.0849	0.00100	"	0.100		84.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

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BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2604 - * DEFAULT PREP *****

Calibration Check (P1E2604-CCV3)				Prepared & Analyzed: 05/26/21						
Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.0944	0.00100	"	0.100		94.4	80-120			
Ethylbenzene	0.0911	0.00100	"	0.100		91.1	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		92.1	80-120			
Xylene (o)	0.0938	0.00100	"	0.100		93.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	75-125			

Matrix Spike (PIE2604-MS1)	Source: 1E26001-01			Prepared & Analyzed: 05/26/21						
Benzene	0.0666	0.00104	mg/kg dry	0.104	ND	63.9	80-120			QM-05
Toluene	0.0610	0.00104	"	0.104	ND	58.5	80-120			QM-05
Ethylbenzene	0.0524	0.00104	"	0.104	ND	50.3	80-120			QM-05
Xylene (p/m)	0.0967	0.00208	"	0.208	ND	46.4	80-120			QM-05
Xylene (o)	0.0541	0.00104	"	0.104	ND	51.9	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.126		"	0.125		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.125		103	80-120			

Matrix Spike Dup (P1E2604-MSD1)	Source: 1E26001-01			Prepared & Analyzed: 05/26/21						
Benzene	0.0656	0.00104	mg/kg dry	0.104	ND	63.0	80-120	1.51	20	QM-05
Toluene	0.0600	0.00104	"	0.104	ND	57.6	80-120	1.60	20	QM-05
Ethylbenzene	0.0505	0.00104	"	0.104	ND	48.5	80-120	3.58	20	QM-05
Xylene (p/m)	0.0926	0.00208	"	0.208	ND	44.5	80-120	4.35	20	QM-05
Xylene (o)	0.0522	0.00104	"	0.104	ND	50.1	80-120	3.55	20	QM-05
Surrogate: 1,4-Difluorobenzene	0.128		"	0.125		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.125		98.5	80-120			

Batch P1E2608 - * DEFAULT PREP *****

Blank (P1E2608-BLK1)				Prepared & Analyzed: 05/26/21						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.2	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
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Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2608 - * DEFAULT PREP *****

LCS (P1E2608-BS1)

Prepared & Analyzed: 05/26/21

Benzene	0.0969	0.00100	mg/kg wet	0.100		96.9	70-130			
Toluene	0.0936	0.00100	"	0.100		93.6	70-130			
Ethylbenzene	0.0842	0.00100	"	0.100		84.2	70-130			
Xylene (p/m)	0.184	0.00200	"	0.200		92.0	70-130			
Xylene (o)	0.0889	0.00100	"	0.100		88.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	80-120			

LCS Dup (P1E2608-BSD1)

Prepared & Analyzed: 05/26/21

Benzene	0.0893	0.00100	mg/kg wet	0.100		89.3	70-130	8.12	20	
Toluene	0.0851	0.00100	"	0.100		85.1	70-130	9.51	20	
Ethylbenzene	0.0811	0.00100	"	0.100		81.1	70-130	3.75	20	
Xylene (p/m)	0.164	0.00200	"	0.200		82.2	70-130	11.2	20	
Xylene (o)	0.0802	0.00100	"	0.100		80.2	70-130	10.3	20	
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	80-120			

Calibration Blank (P1E2608-CCB1)

Prepared & Analyzed: 05/26/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		94.9	80-120			

Calibration Blank (P1E2608-CCB3)

Prepared: 05/26/21 Analyzed: 05/27/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		94.9	80-120			

Permian Basin Environmental Lab, L.P.

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BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2608 - * DEFAULT PREP *******Calibration Check (P1E2608-CCV1)**

Prepared & Analyzed: 05/26/21

Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.0944	0.00100	"	0.100		94.4	80-120			
Ethylbenzene	0.0911	0.00100	"	0.100		91.1	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		92.1	80-120			
Xylene (o)	0.0938	0.00100	"	0.100		93.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	75-125			

Calibration Check (P1E2608-CCV3)

Prepared: 05/26/21 Analyzed: 05/27/21

Benzene	0.0929	0.00100	mg/kg wet	0.100		92.9	80-120			
Toluene	0.0886	0.00100	"	0.100		88.6	80-120			
Ethylbenzene	0.0844	0.00100	"	0.100		84.4	80-120			
Xylene (p/m)	0.168	0.00200	"	0.200		83.9	80-120			
Xylene (o)	0.0861	0.00100	"	0.100		86.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			

Matrix Spike (P1E2608-MS1)

Source: 1E26004-12

Prepared: 05/26/21 Analyzed: 05/27/21

Benzene	0.0860	0.00111	mg/kg dry	0.111	ND	77.4	80-120			QM-05
Toluene	0.0841	0.00111	"	0.111	ND	75.7	80-120			QM-05
Ethylbenzene	0.0723	0.00111	"	0.111	ND	65.0	80-120			QM-05
Xylene (p/m)	0.148	0.00222	"	0.222	ND	66.8	80-120			QM-05
Xylene (o)	0.0727	0.00111	"	0.111	ND	65.4	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.141		"	0.133		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.141		"	0.133		106	80-120			

Matrix Spike Dup (P1E2608-MSD1)

Source: 1E26004-12

Prepared: 05/26/21 Analyzed: 05/27/21

Benzene	0.0816	0.00111	mg/kg dry	0.111	ND	73.4	80-120	5.34	20	QM-05
Toluene	0.0794	0.00111	"	0.111	ND	71.4	80-120	5.74	20	QM-05
Ethylbenzene	0.0683	0.00111	"	0.111	ND	61.5	80-120	5.58	20	QM-05
Xylene (p/m)	0.140	0.00222	"	0.222	ND	62.9	80-120	5.92	20	QM-05
Xylene (o)	0.0691	0.00111	"	0.111	ND	62.2	80-120	5.03	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.138		"	0.133		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.139		"	0.133		104	80-120			

Permian Basin Environmental Lab, L.P.

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Project Number: 21-0105-02
Project Manager: Mark Larson

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2609 - * DEFAULT PREP *****

Blank (P1E2609-BLK1)		Prepared & Analyzed: 05/26/21								
Chloride	ND	1.00	mg/kg wet							
LCS (P1E2609-BS1)		Prepared & Analyzed: 05/26/21								
Chloride	402	1.00	mg/kg wet	400		101	90-110			
LCS Dup (P1E2609-BSD1)		Prepared & Analyzed: 05/26/21								
Chloride	402	1.00	mg/kg wet	400		101	90-110	0.0547	20	
Calibration Check (P1E2609-CCV1)		Prepared & Analyzed: 05/26/21								
Chloride	20.5		mg/kg	20.0		103	90-110			
Calibration Check (P1E2609-CCV2)		Prepared & Analyzed: 05/26/21								
Chloride	20.7		mg/kg	20.0		103	90-110			
Calibration Check (P1E2609-CCV3)		Prepared: 05/26/21 Analyzed: 05/27/21								
Chloride	20.1		mg/kg	20.0		101	90-110			
Matrix Spike (P1E2609-MS1)		Source: 1E26004-01		Prepared & Analyzed: 05/26/21						
Chloride	13600	29.8	mg/kg dry	2980	11100	85.2	80-120			
Matrix Spike (P1E2609-MS2)		Source: 1E26004-11		Prepared: 05/26/21 Analyzed: 05/27/21						
Chloride	5090	10.8	mg/kg dry	1080	4150	87.8	80-120			
Matrix Spike Dup (P1E2609-MSD1)		Source: 1E26004-01		Prepared & Analyzed: 05/26/21						
Chloride	13600	29.8	mg/kg dry	2980	11100	87.1	80-120	0.406	20	
Matrix Spike Dup (P1E2609-MSD2)		Source: 1E26004-11		Prepared: 05/26/21 Analyzed: 05/27/21						
Chloride	5120	10.8	mg/kg dry	1080	4150	90.3	80-120	0.514	20	

Permian Basin Environmental Lab, L.P.

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2701 - * DEFAULT PREP *****

Blank (P1E2701-BLK1)

Prepared & Analyzed: 05/27/21

% Moisture	ND	0.1	%
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Duplicate (P1E2701-DUP1)

Source: 1E26004-10

Prepared & Analyzed: 05/27/21

% Moisture	1.0	0.1	%	1.0	0.00	20
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Duplicate (P1E2701-DUP2)

Source: 1E26002-01

Prepared & Analyzed: 05/27/21

% Moisture	3.0	0.1	%	3.0	0.00	20
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Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2603 - TX 1005

Blank (P1E2603-BLK1)

Prepared & Analyzed: 05/26/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	94.9		"	100		94.9	70-130			
Surrogate: o-Terphenyl	49.4		"	50.0		98.9	70-130			

LCS (P1E2603-BS1)

Prepared & Analyzed: 05/26/21

C6-C12	1060	25.0	mg/kg wet	1000		106	75-125			
>C12-C28	922	25.0	"	1000		92.2	75-125			
Surrogate: 1-Chlorooctane	98.3		"	100		98.3	70-130			
Surrogate: o-Terphenyl	55.7		"	50.0		111	70-130			

LCS Dup (P1E2603-BSD1)

Prepared & Analyzed: 05/26/21

C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	0.879	20	
>C12-C28	917	25.0	"	1000		91.7	75-125	0.624	20	
Surrogate: 1-Chlorooctane	97.0		"	100		97.0	70-130			
Surrogate: o-Terphenyl	53.4		"	50.0		107	70-130			

Calibration Check (P1E2603-CCV1)

Prepared & Analyzed: 05/26/21

C6-C12	465	25.0	mg/kg wet	500		92.9	85-115			
>C12-C28	448	25.0	"	500		89.5	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	50.1		"	50.0		100	70-130			

Calibration Check (P1E2603-CCV2)

Prepared & Analyzed: 05/26/21

C6-C12	505	25.0	mg/kg wet	500		101	85-115			
>C12-C28	488	25.0	"	500		97.7	85-115			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	56.6		"	50.0		113	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P1E2603 - TX 1005

Duplicate (P1E2603-DUP1)

Source: 1E26004-01

Prepared: 05/26/21 Analyzed: 05/27/21

C6-C12	ND	29.8	mg/kg dry		ND				20	
>C12-C28	ND	29.8	"		ND				20	
Surrogate: 1-Chlorooctane	126		"	119		106	70-130			
Surrogate: o-Terphenyl	67.8		"	59.5		114	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 5/27/2021

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

1587
N 10

CHAIN-OF-CUSTODY

Aarson & —
associates, inc.

Environmental Consultants

507 N. Marienfeld, Ste. 202

Midland, TX 79701

432-687-0901

Data Reported to:

DATE: 5/26/2021

PO#:

PROJECT LOCATION OR NAME:

LA PROJECT #: 21-0105-02

COLLECTOR: RL

PAGE 1 OF 2

1674007

Page 31 of 32

TRRP report? ☐ Yes ☒ No					
TIME ZONE: Time zone/State:					
S=SOIL W=WATER A=AIR					
P=PAINT SL=SLUDGE OT=OTHER					
MST					
Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers
S-1, O.S'	1	5/15/11	12:01	S	1
S-1, 1'	2		1202		
S-2, O.S'	3		1203		
S-2, 1'	4		1204		
S-3, O.S'	5		1205		
S-3, 1'	6		1206		
S-4, O.S'	7		1207		
S-4, 1'	8		1208		
S-5, O.S'	9		1209		
S-5, 1'	10		1209		
S-6, O.S'	11		1210		
S-6, 1'	12		1211		
S-7, O.S'	13		1212		
S-7, 1'	14		1212		
S-8, O.S'	15		1213		
TOTAL					15
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)					
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)					
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)					
LABORATORY: PDEL					
PRESERVATION					
HCl					
HNO ₃					
H ₂ SO ₄ ☐ NaOH ☐					
ICE					
UNPRESSERVED					
ANALYSES					
BTX: B, T, MBE ☐					
TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐					
GASOLINE MOD 8015 ☐					
DIESEL - MOD 8015 ☐					
OIL - MOD 8015 ☐					
VOC 8260 ☐					
SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐					
8081 PESTICIDES ☐ 8151 HERBICIDES ☐					
TCPP - METALS (RCRA) ☐ TCLP VOC ☐					
TCLP - PEST ☐ HERB ☐ Semi-VOC ☐					
TOTAL METALS (RCRA) ☐ OTHER LIST ☐					
LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐					
R/C ☐ TOX ☐ FLASHPOINT ☐					
TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐					
PH ☐ HEXAVALENT CHROMIUM ☐					
EXPLOSIVES ☐ PECHLORATE ☐					
CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐					
FIELD NOTES					
TURN AROUND TIME					
NORMAL ☒					
1 DAY ☐					
2 DAY ☐					
OTHER ☐					
LABORATORY USE ONLY:					
RECEIVING TEMP: 8°C THERM#: CFI					
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED					
☐ CARRIER BILL #					
☐ HAND DELIVERED					

507 N. Mariefeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 5/26/2021 PAGE _____
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmio A5T
LA PROJECT #: 21-0105-02 COLLECTOR: AW

CHAIN-OF-CUSTODY

NO 1590

Page 32 of 32

TRRP report? ☐ Yes ☒ No		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER	
TIME ZONE: Time zone/State:					
Field Sample I.D.		Lab #	Date	Time	Matrix
5-81 5-90.5 5-91		16 17 18	5/25/21 I I	1214 1215 1216	5 I I
TOTAL		3			
RELINQUISHED BY: (Signature) RELINQUISHED BY: (Signature)		DATE/TIME DATE/TIME		RECEIVED BY: (Signature) RECEIVED BY: (Signature)	
RELINQUISHED BY: (Signature) RELINQUISHED BY: (Signature)		DATE/TIME DATE/TIME		RECEIVED BY: (Signature) RECEIVED BY: (Signature)	
LABORATORY: PBE		DATE/TIME DATE/TIME		RECEIVED BY: (Signature) RECEIVED BY: (Signature)	
TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐		LABORATORY USE ONLY: RECEIVING TEMP: 5 THERM: 12 CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # ☐ HAND DELIVERED			
ANALYSES BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☒ DIESEL - MOD 8015 ☒ OIL - MOD 8015 ☒ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECTHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐					
FIELD NOTES					

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Palmio AST
Project Number: 21-0105-02
Location: NM
Lab Order Number: 1E27006



Current Certification

Report Date: 06/01/21

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-10 @ 0.5'	1E27006-01	Soil	05/26/21 08:25	05-27-2021 16:01
S-10 @ 1'	1E27006-02	Soil	05/26/21 08:27	05-27-2021 16:01
S-11 @ 0.5'	1E27006-03	Soil	05/26/21 08:31	05-27-2021 16:01
S-11 @ 1'	1E27006-04	Soil	05/26/21 08:33	05-27-2021 16:01
S-12 @ 0.5'	1E27006-05	Soil	05/26/21 08:40	05-27-2021 16:01
S-12 @ 1'	1E27006-06	Soil	05/26/21 08:42	05-27-2021 16:01
S-13 @ 0.5'	1E27006-07	Soil	05/26/21 08:43	05-27-2021 16:01
S-13 @ 1'	1E27006-08	Soil	05/26/21 08:45	05-27-2021 16:01
S-14 @ 0.5'	1E27006-09	Soil	05/26/21 08:47	05-27-2021 16:01
S-14 @ 1'	1E27006-10	Soil	05/26/21 08:49	05-27-2021 16:01
S-15 @ 0.5'	1E27006-11	Soil	05/26/21 08:52	05-27-2021 16:01
S-15 @ 1'	1E27006-12	Soil	05/26/21 08:53	05-27-2021 16:01
S-16 @ 0.5'	1E27006-13	Soil	05/26/21 09:05	05-27-2021 16:01
S-17 @ 0.5'	1E27006-14	Soil	05/26/21 09:08	05-27-2021 16:01
S-18 @ 0.5'	1E27006-15	Soil	05/26/21 09:08	05-27-2021 16:01
S-19 @ 0.5'	1E27006-16	Soil	05/26/21 09:11	05-27-2021 16:01
S-20 @ 0.5'	1E27006-17	Soil	05/26/21 09:11	05-27-2021 16:01
S-20 @ 1'	1E27006-18	Soil	05/26/21 09:13	05-27-2021 16:01
S-21 @ 0.5'	1E27006-19	Soil	05/26/21 09:14	05-27-2021 16:01
S-22 @ 0.5'	1E27006-20	Soil	05/26/21 09:16	05-27-2021 16:01
S-23 @ 0.5"	1E27006-21	Soil	05/26/21 09:15	05-27-2021 16:01
S-24 @ 0.5'	1E27006-22	Soil	05/26/21 09:19	05-27-2021 16:01
S-24 @ 1'	1E27006-23	Soil	05/26/21 09:20	05-27-2021 16:01
S-25 @ 0.5'	1E27006-24	Soil	05/26/21 12:52	05-27-2021 16:01
S-26 @ 0.5'	1E27006-25	Soil	05/26/21 13:00	05-27-2021 16:01
S-27 @ 0.5'	1E27006-26	Soil	05/26/21 13:02	05-27-2021 16:01
S-28 @ 0.5'	1E27006-27	Soil	05/26/21 13:04	05-27-2021 16:01
S-28 @ 1'	1E27006-28	Soil	05/26/21 13:05	05-27-2021 16:01
S-29 @ 0.5'	1E27006-29	Soil	05/27/21 10:45	05-27-2021 16:01
S-29 @ 1'	1E27006-30	Soil	05/27/21 10:46	05-27-2021 16:01
S-30 @ 0.5'	1E27006-31	Soil	05/26/21 13:06	05-27-2021 16:01
S-30 @ 1'	1E27006-32	Soil	05/26/21 13:07	05-27-2021 16:01
S-31 @ 0.5'	1E27006-33	Soil	05/26/21 13:08	05-27-2021 16:01
S-31 @ 1'	1E27006-34	Soil	05/26/21 13:09	05-27-2021 16:01

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-32 @ 0.5'	1E27006-35	Soil	05/26/21 13:10	05-27-2021 16:01
S-32 @ 1'	1E27006-36	Soil	05/26/21 13:11	05-27-2021 16:01
S-33 @ 0.5'	1E27006-37	Soil	05/26/21 13:12	05-27-2021 16:01
S-33 @ 1'	1E27006-38	Soil	05/26/21 13:13	05-27-2021 16:01
S-34 @ 0.5'	1E27006-39	Soil	05/26/21 13:15	05-27-2021 16:01
S-35 @ 0.5'	1E27006-40	Soil	05/26/21 13:20	05-27-2021 16:01
S-35 @ 1'	1E27006-41	Soil	05/26/21 13:21	05-27-2021 16:01
S-36 @ 0.5'	1E27006-42	Soil	05/26/21 13:24	05-27-2021 16:01
S-36 @ 1'	1E27006-43	Soil	05/26/21 13:25	05-27-2021 16:01
S-37 @ 0.5'	1E27006-44	Soil	05/26/21 13:27	05-27-2021 16:01
S-37 @ 1'	1E27006-45	Soil	05/26/21 13:28	05-27-2021 16:01
S-38 @ 0.5'	1E27006-46	Soil	05/26/21 13:32	05-27-2021 16:01
S-39 @ 0.5'	1E27006-47	Soil	05/26/21 13:34	05-27-2021 16:01
S-39 @ 1'	1E27006-48	Soil	05/26/21 13:35	05-27-2021 16:01
S-40 @ 0.5'	1E27006-49	Soil	05/26/21 13:37	05-27-2021 16:01
S-41 @ 0.5'	1E27006-50	Soil	05/26/21 13:39	05-27-2021 16:01
S-41 @ 1'	1E27006-51	Soil	05/26/21 13:40	05-27-2021 16:01
S-42 @ 0.5'	1E27006-52	Soil	05/26/21 14:15	05-27-2021 16:01
S-42 @ 1'	1E27006-53	Soil	05/26/21 14:16	05-27-2021 16:01
S-43 @ 0.5'	1E27006-54	Soil	05/26/21 14:17	05-27-2021 16:01
S-43 @ 1'	1E27006-55	Soil	05/26/21 14:18	05-27-2021 16:01
S-44 @ 0.5'	1E27006-56	Soil	05/26/21 14:20	05-27-2021 16:01
S-44 @ 1'	1E27006-57	Soil	05/26/21 14:21	05-27-2021 16:01
S-45 @ 0.5'	1E27006-58	Soil	05/26/21 14:25	05-27-2021 16:01
S-46 @ 0.5'	1E27006-59	Soil	05/26/21 14:26	05-27-2021 16:01
S-47 @ 0.5'	1E27006-60	Soil	05/26/21 14:28	05-27-2021 16:01
S-48 @ 0.5'	1E27007-01	Soil	05/26/21 14:30	05-27-2021 16:01
S-49 @ 0.5'	1E27007-02	Soil	05/26/21 14:32	05-27-2021 16:01
S-50 @ 0.5'	1E27007-03	Soil	05/26/21 14:33	05-27-2021 16:01
S-51 @ 0.5'	1E27007-04	Soil	05/26/21 14:38	05-27-2021 16:01
S-52 @ 0.5'	1E27007-05	Soil	05/26/21 14:40	05-27-2021 16:01
S-53 @ 0.5'	1E27007-06	Soil	05/26/21 14:42	05-27-2021 16:01
D-1 @ 0.5'	1E27007-07	Soil	05/26/21 14:49	05-27-2021 16:01
D-2 @ 0.5'	1E27007-08	Soil	05/26/21 11:58	05-27-2021 16:01

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
D-2 @ 1'	1E27007-09	Soil	05/26/21 11:59	05-27-2021 16:01
D-3 @ 0.5'	1E27007-10	Soil	05/26/21 12:01	05-27-2021 16:01
D-4 @ 0.5'	1E27007-11	Soil	05/26/21 13:17	05-27-2021 16:01
S-54 @ 0.5'	1E27007-12	Soil	05/27/21 07:40	05-27-2021 16:01
S-54 @ 1'	1E27007-13	Soil	05/27/21 07:41	05-27-2021 16:01
S-55 @ 0.5'	1E27007-14	Soil	05/27/21 07:42	05-27-2021 16:01
S-55 @ 1'	1E27007-15	Soil	05/27/21 07:43	05-27-2021 16:01
S-56 @ 0.5'	1E27007-16	Soil	05/27/21 07:47	05-27-2021 16:01
S-56 @ 1'	1E27007-17	Soil	05/27/21 07:48	05-27-2021 16:01
S-57 @ 0.5'	1E27007-18	Soil	05/27/21 07:51	05-27-2021 16:01
S-57 @ 1'	1E27007-19	Soil	05/27/21 07:52	05-27-2021 16:01
S-58 @ 0.5'	1E27007-20	Soil	05/27/21 07:56	05-27-2021 16:01
S-58 @ 1'	1E27007-21	Soil	05/27/21 07:57	05-27-2021 16:01
S-59 @ 0.5'	1E27007-22	Soil	05/27/21 07:59	05-27-2021 16:01
S-59 @ 1'	1E27007-23	Soil	05/27/21 08:00	05-27-2021 16:01
S-60 @ 0.5'	1E27007-24	Soil	05/27/21 08:02	05-27-2021 16:01
S-60 @ 1'	1E27007-25	Soil	05/27/21 08:03	05-27-2021 16:01
S-61 @ 0.5'	1E27007-26	Soil	05/27/21 08:06	05-27-2021 16:01
S-61 @ 1'	1E27007-27	Soil	05/27/21 08:07	05-27-2021 16:01
S-62 @ 0.5'	1E27007-28	Soil	05/27/21 08:10	05-27-2021 16:01
S-62 @ 1'	1E27007-29	Soil	05/27/21 08:12	05-27-2021 16:01
S-63 @ 0.5'	1E27007-30	Soil	05/27/21 08:18	05-27-2021 16:01
S-63 @ 1'	1E27007-31	Soil	05/27/21 00:00	05-27-2021 16:01
S-64 @ 0.5'	1E27007-32	Soil	05/27/21 00:00	05-27-2021 16:01
S-64 @ 1'	1E27007-33	Soil	05/27/21 00:00	05-27-2021 16:01
S-65 @ 0.5'	1E27007-34	Soil	05/27/21 00:00	05-27-2021 16:01
S-65 @ 1'	1E27007-35	Soil	05/27/21 00:00	05-27-2021 16:01
S-66 @ 0.5'	1E27007-36	Soil	05/27/21 00:00	05-27-2021 16:01
S-67 @ 0.5'	1E27007-37	Soil	05/27/21 00:00	05-27-2021 16:01
S-67 @ 1'	1E27007-38	Soil	05/27/21 00:00	05-27-2021 16:01
S-68 @ 0.5'	1E27007-39	Soil	05/27/21 00:00	05-27-2021 16:01
S-68 @ 1'	1E27007-40	Soil	05/27/21 00:00	05-27-2021 16:01
S-69 @ 0.5'	1E27007-41	Soil	05/27/21 00:00	05-27-2021 16:01
S-69 @ 1'	1E27007-42	Soil	05/27/21 00:00	05-27-2021 16:01

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.

Project: Palmio AST

P.O. Box 50685

Project Number: 21-0105-02

Midland TX, 79710

Project Manager: Mark Larson

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-10 @ 0.5'
1E27006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 13:50	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 13:50	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 13:50	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 13:50	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 13:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	106 %		80-120		P1E2802	05/28/21 09:09	05/28/21 13:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.1 %		80-120		P1E2802	05/28/21 09:09	05/28/21 13:50	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3460	10.6	mg/kg dry	10	P1E2806	05/28/21 10:23	05/28/21 14:42	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 11:33	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 11:33	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 11:33	TPH 8015M	
Surrogate: 1-Chlorooctane	117 %		70-130		P1E2801	05/28/21 09:01	05/28/21 11:33	TPH 8015M	
Surrogate: o-Terphenyl	142 %		70-130		P1E2801	05/28/21 09:01	05/28/21 11:33	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 11:33	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-10 @ 1'
1E27006-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:11	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:11	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:11	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:11	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	97.9 %		80-120		P1E2802	05/28/21 09:09	05/28/21 14:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %		80-120		P1E2802	05/28/21 09:09	05/28/21 14:11	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1330	5.38	mg/kg dry	5	P1E2806	05/28/21 10:23	05/28/21 15:28	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 20:35	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 20:35	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 20:35	TPH 8015M	
Surrogate: 1-Chlorooctane	127 %		70-130		P1E2801	05/28/21 09:01	05/28/21 20:35	TPH 8015M	
Surrogate: o-Terphenyl	151 %		70-130		P1E2801	05/28/21 09:01	05/28/21 20:35	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 20:35	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-11 @ 0.5'
1E27006-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:32	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:32	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:32	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:32	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	112 %		80-120		P1E2802	05/28/21 09:09	05/28/21 14:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	106 %		80-120		P1E2802	05/28/21 09:09	05/28/21 14:32	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7550	26.9	mg/kg dry	25	P1E2806	05/28/21 10:23	05/28/21 15:43	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 12:18	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 12:18	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 12:18	TPH 8015M	
Surrogate: 1-Chlorooctane	117 %		70-130		P1E2801	05/28/21 09:01	05/28/21 12:18	TPH 8015M	
Surrogate: o-Terphenyl	140 %		70-130		P1E2801	05/28/21 09:01	05/28/21 12:18	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 12:18	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-11 @ 1'
1E27006-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:52	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:52	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:52	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:52	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 14:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P1E2802	05/28/21 09:09	05/28/21 14:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2802	05/28/21 09:09	05/28/21 14:52	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2960	11.4	mg/kg dry	10	P1E2806	05/28/21 10:23	05/28/21 15:59	EPA 300.0	
% Moisture	12.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 12:40	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 12:40	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 12:40	TPH 8015M	
Surrogate: 1-Chlorooctane	114 %		70-130		P1E2801	05/28/21 09:01	05/28/21 12:40	TPH 8015M	
Surrogate: o-Terphenyl	135 %		70-130		P1E2801	05/28/21 09:01	05/28/21 12:40	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 12:40	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-12 @ 0.5'
1E27006-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:13	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:13	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:13	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:13	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2802	05/28/21 09:09	05/28/21 15:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.6 %		80-120		P1E2802	05/28/21 09:09	05/28/21 15:13	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6210	26.6	mg/kg dry	25	P1E2806	05/28/21 10:23	05/28/21 16:14	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 13:03	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 13:03	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 13:03	TPH 8015M	
Surrogate: 1-Chlorooctane	115 %		70-130		P1E2801	05/28/21 09:01	05/28/21 13:03	TPH 8015M	
Surrogate: o-Terphenyl	136 %		70-130		P1E2801	05/28/21 09:01	05/28/21 13:03	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 13:03	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-12 @ 1'
1E27006-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:34	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:34	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:34	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:34	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2802	05/28/21 09:09	05/28/21 15:34	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P1E2802	05/28/21 09:09	05/28/21 15:34	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6450	28.1	mg/kg dry	25	P1E2806	05/28/21 10:23	05/28/21 16:29	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 13:25	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 13:25	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 13:25	TPH 8015M	
Surrogate: 1-Chlorooctane	113 %		70-130		P1E2801	05/28/21 09:01	05/28/21 13:25	TPH 8015M	
Surrogate: o-Terphenyl	135 %		70-130		P1E2801	05/28/21 09:01	05/28/21 13:25	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 13:25	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-13 @ 0.5'
1E27006-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:55	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:55	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:55	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:55	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 15:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P1E2802	05/28/21 09:09	05/28/21 15:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2802	05/28/21 09:09	05/28/21 15:55	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7340	27.2	mg/kg dry	25	P1E2806	05/28/21 10:23	05/28/21 16:45	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 13:48	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 13:48	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 13:48	TPH 8015M	
Surrogate: 1-Chlorooctane	113 %		70-130		P1E2801	05/28/21 09:01	05/28/21 13:48	TPH 8015M	
Surrogate: o-Terphenyl	135 %		70-130		P1E2801	05/28/21 09:01	05/28/21 13:48	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 13:48	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-13 @ 1'
1E27006-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:16	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:16	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:16	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:16	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2802	05/28/21 09:09	05/28/21 16:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	107 %		80-120		P1E2802	05/28/21 09:09	05/28/21 16:16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9130	28.4	mg/kg dry	25	P1E2806	05/28/21 10:23	05/28/21 17:00	EPA 300.0	
% Moisture	12.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 14:11	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 14:11	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 14:11	TPH 8015M	
Surrogate: 1-Chlorooctane	114 %		70-130		P1E2801	05/28/21 09:01	05/28/21 14:11	TPH 8015M	
Surrogate: o-Terphenyl	135 %		70-130		P1E2801	05/28/21 09:01	05/28/21 14:11	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 14:11	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-14 @ 0.5'
1E27006-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:37	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:37	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:37	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:37	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.5 %		80-120		P1E2802	05/28/21 09:09	05/28/21 16:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2802	05/28/21 09:09	05/28/21 16:37	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	110	1.03	mg/kg dry	1	P1E2806	05/28/21 10:23	05/28/21 17:15	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 14:33	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 14:33	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 14:33	TPH 8015M	
Surrogate: 1-Chlorooctane	117 %		70-130		P1E2801	05/28/21 09:01	05/28/21 14:33	TPH 8015M	
Surrogate: o-Terphenyl	139 %		70-130		P1E2801	05/28/21 09:01	05/28/21 14:33	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 14:33	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-14 @ 1'
1E27006-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:58	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:58	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:58	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:58	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 16:58	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.8 %		80-120		P1E2802	05/28/21 09:09	05/28/21 16:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2802	05/28/21 09:09	05/28/21 16:58	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P1E2806	05/28/21 10:23	05/28/21 17:30	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 14:56	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 14:56	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 14:56	TPH 8015M	
Surrogate: 1-Chlorooctane	117 %		70-130		P1E2801	05/28/21 09:01	05/28/21 14:56	TPH 8015M	
Surrogate: o-Terphenyl	137 %		70-130		P1E2801	05/28/21 09:01	05/28/21 14:56	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 14:56	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-15 @ 0.5'
1E27006-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:01	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:01	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:01	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:01	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P1E2802	05/28/21 09:09	05/28/21 18:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2802	05/28/21 09:09	05/28/21 18:01	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2910	10.9	mg/kg dry	10	P1E2806	05/28/21 10:23	05/28/21 18:16	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 16:05	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 16:05	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 16:05	TPH 8015M	
Surrogate: 1-Chlorooctane	116 %		70-130		P1E2801	05/28/21 09:01	05/28/21 16:05	TPH 8015M	
Surrogate: o-Terphenyl	137 %		70-130		P1E2801	05/28/21 09:01	05/28/21 16:05	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 16:05	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-15 @ 1'
1E27006-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:22	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:22	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:22	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:22	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.9 %		80-120		P1E2802	05/28/21 09:09	05/28/21 18:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1E2802	05/28/21 09:09	05/28/21 18:22	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1060	5.62	mg/kg dry	5	P1E2806	05/28/21 10:23	05/28/21 19:02	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 16:27	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 16:27	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 16:27	TPH 8015M	
Surrogate: 1-Chlorooctane	120 %		70-130		P1E2801	05/28/21 09:01	05/28/21 16:27	TPH 8015M	
Surrogate: o-Terphenyl	143 %		70-130		P1E2801	05/28/21 09:01	05/28/21 16:27	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 16:27	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-16 @ 0.5'
1E27006-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:43	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:43	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:43	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:43	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 18:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P1E2802	05/28/21 09:09	05/28/21 18:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %		80-120		P1E2802	05/28/21 09:09	05/28/21 18:43	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7230	27.2	mg/kg dry	25	P1E2806	05/28/21 10:23	05/28/21 19:18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 16:50	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 16:50	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 16:50	TPH 8015M	
Surrogate: 1-Chlorooctane	117 %		70-130		P1E2801	05/28/21 09:01	05/28/21 16:50	TPH 8015M	
Surrogate: o-Terphenyl	139 %		70-130		P1E2801	05/28/21 09:01	05/28/21 16:50	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 16:50	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-17 @ 0.5'
1E27006-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:03	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:03	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:03	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:03	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	100 %		80-120		P1E2802	05/28/21 09:09	05/28/21 19:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2802	05/28/21 09:09	05/28/21 19:03	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9000	27.5	mg/kg dry	25	P1E2806	05/28/21 10:23	05/28/21 19:33	EPA 300.0	
% Moisture	9.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 17:13	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 17:13	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 17:13	TPH 8015M	
Surrogate: 1-Chlorooctane	116 %		70-130		P1E2801	05/28/21 09:01	05/28/21 17:13	TPH 8015M	
Surrogate: o-Terphenyl	138 %		70-130		P1E2801	05/28/21 09:01	05/28/21 17:13	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 17:13	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-18 @ 0.5'
1E27006-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:24	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:24	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:24	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:24	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2802	05/28/21 09:09	05/28/21 19:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2802	05/28/21 09:09	05/28/21 19:24	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5730	26.6	mg/kg dry	25	P1E2806	05/28/21 10:23	05/28/21 19:48	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 17:35	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 17:35	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 17:35	TPH 8015M	
Surrogate: 1-Chlorooctane	119 %		70-130		P1E2801	05/28/21 09:01	05/28/21 17:35	TPH 8015M	
Surrogate: o-Terphenyl	141 %		70-130		P1E2801	05/28/21 09:01	05/28/21 17:35	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 17:35	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-19 @ 0.5'
1E27006-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:45	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:45	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:45	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:45	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 19:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1E2802	05/28/21 09:09	05/28/21 19:45	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2802	05/28/21 09:09	05/28/21 19:45	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5010	26.9	mg/kg dry	25	P1E2806	05/28/21 10:23	05/28/21 20:04	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 17:58	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 17:58	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 17:58	TPH 8015M	
Surrogate: 1-Chlorooctane	122 %		70-130		P1E2801	05/28/21 09:01	05/28/21 17:58	TPH 8015M	
Surrogate: o-Terphenyl	144 %		70-130		P1E2801	05/28/21 09:01	05/28/21 17:58	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 17:58	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-20 @ 0.5'
1E27006-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:05	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:05	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:05	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:05	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	98.3 %		80-120		P1E2802	05/28/21 09:09	05/28/21 20:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P1E2802	05/28/21 09:09	05/28/21 20:05	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4670	10.9	mg/kg dry	10	P1E2806	05/28/21 10:23	05/28/21 20:19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 18:21	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 18:21	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 18:21	TPH 8015M	
Surrogate: 1-Chlorooctane	121 %		70-130		P1E2801	05/28/21 09:01	05/28/21 18:21	TPH 8015M	
Surrogate: o-Terphenyl	143 %		70-130		P1E2801	05/28/21 09:01	05/28/21 18:21	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 18:21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-20 @ 1'
1E27006-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:26	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:26	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:26	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:26	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2802	05/28/21 09:09	05/28/21 20:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2802	05/28/21 09:09	05/28/21 20:26	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2260	11.4	mg/kg dry	10	P1E2806	05/28/21 10:23	05/28/21 20:34	EPA 300.0	
% Moisture	12.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 18:44	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 18:44	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 18:44	TPH 8015M	
Surrogate: 1-Chlorooctane	119 %		70-130		P1E2801	05/28/21 09:01	05/28/21 18:44	TPH 8015M	
Surrogate: o-Terphenyl	140 %		70-130		P1E2801	05/28/21 09:01	05/28/21 18:44	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 18:44	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-21 @ 0.5'
1E27006-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:46	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:46	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:46	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:46	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 20:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	106 %		80-120		P1E2802	05/28/21 09:09	05/28/21 20:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P1E2802	05/28/21 09:09	05/28/21 20:46	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2040	10.9	mg/kg dry	10	P1E2806	05/28/21 10:23	05/28/21 20:50	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 19:06	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 19:06	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 19:06	TPH 8015M	
Surrogate: 1-Chlorooctane	121 %		70-130		P1E2801	05/28/21 09:01	05/28/21 19:06	TPH 8015M	
Surrogate: o-Terphenyl	143 %		70-130		P1E2801	05/28/21 09:01	05/28/21 19:06	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 19:06	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-22 @ 0.5'
1E27006-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 21:06	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 21:06	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 21:06	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 21:06	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1E2802	05/28/21 09:09	05/28/21 21:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	100 %		80-120		P1E2802	05/28/21 09:09	05/28/21 21:06	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P1E2802	05/28/21 09:09	05/28/21 21:06	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9820	56.2	mg/kg dry	50	P1E2806	05/28/21 10:23	05/28/21 21:05	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 19:29	TPH 8015M	
>C12-C28	43.2	28.1	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 19:29	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P1E2801	05/28/21 09:01	05/28/21 19:29	TPH 8015M	
Surrogate: 1-Chlorooctane	123 %		70-130		P1E2801	05/28/21 09:01	05/28/21 19:29	TPH 8015M	
Surrogate: o-Terphenyl	145 %		70-130		P1E2801	05/28/21 09:01	05/28/21 19:29	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	43.2	28.1	mg/kg dry	1	[CALC]	05/28/21 09:01	05/28/21 19:29	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-23 @ 0.5"
1E27006-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 12:47	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 12:47	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 12:47	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 12:47	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 12:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %		80-120		P1E2803	05/28/21 09:14	05/29/21 12:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P1E2803	05/28/21 09:14	05/29/21 12:47	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6350	26.0	mg/kg dry	25	P1E2812	05/28/21 13:27	05/28/21 22:37	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 15:46	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 15:46	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 15:46	TPH 8015M	
Surrogate: 1-Chlorooctane	100 %		70-130		P1E2805	05/28/21 10:19	05/28/21 15:46	TPH 8015M	
Surrogate: o-Terphenyl	107 %		70-130		P1E2805	05/28/21 10:19	05/28/21 15:46	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 15:46	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-24 @ 0.5'
1E27006-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:08	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:08	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:08	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:08	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:08	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2803	05/28/21 09:14	05/29/21 13:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	99.5 %		80-120		P1E2803	05/28/21 09:14	05/29/21 13:08	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9720	27.5	mg/kg dry	25	P1E2812	05/28/21 13:27	05/30/21 10:37	EPA 300.0	
% Moisture	9.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 16:09	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 16:09	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 16:09	TPH 8015M	
Surrogate: 1-Chlorooctane	105 %		70-130		P1E2805	05/28/21 10:19	05/28/21 16:09	TPH 8015M	
Surrogate: o-Terphenyl	112 %		70-130		P1E2805	05/28/21 10:19	05/28/21 16:09	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 16:09	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-24 @ 1'
1E27006-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:29	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:29	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:29	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:29	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1E2803	05/28/21 09:14	05/29/21 13:29	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2803	05/28/21 09:14	05/29/21 13:29	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9750	28.4	mg/kg dry	25	P1E2812	05/28/21 13:27	05/30/21 10:57	EPA 300.0	
% Moisture	12.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 16:32	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 16:32	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 16:32	TPH 8015M	
Surrogate: 1-Chlorooctane	111 %		70-130		P1E2805	05/28/21 10:19	05/28/21 16:32	TPH 8015M	
Surrogate: o-Terphenyl	118 %		70-130		P1E2805	05/28/21 10:19	05/28/21 16:32	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 16:32	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-25 @ 0.5'
1E27006-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:49	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:49	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:49	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:49	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 13:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %	80-120			P1E2803	05/28/21 09:14	05/29/21 13:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %	80-120			P1E2803	05/28/21 09:14	05/29/21 13:49	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9730	26.0	mg/kg dry	25	P1E2812	05/28/21 13:27	05/30/21 11:16	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 16:55	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 16:55	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 16:55	TPH 8015M	
Surrogate: 1-Chlorooctane	113 %	70-130			P1E2805	05/28/21 10:19	05/28/21 16:55	TPH 8015M	
Surrogate: o-Terphenyl	120 %	70-130			P1E2805	05/28/21 10:19	05/28/21 16:55	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 16:55	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-26 @ 0.5'
1E27006-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:10	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:10	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:10	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:10	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2803	05/28/21 09:14	05/29/21 14:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	100 %		80-120		P1E2803	05/28/21 09:14	05/29/21 14:10	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7310	26.9	mg/kg dry	25	P1E2812	05/28/21 13:27	05/30/21 11:36	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 16:28	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 16:28	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 16:28	TPH 8015M	
Surrogate: 1-Chlorooctane	122 %		70-130		P1E2807	05/28/21 10:20	05/29/21 16:28	TPH 8015M	
Surrogate: o-Terphenyl	141 %		70-130		P1E2807	05/28/21 10:20	05/29/21 16:28	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 16:28	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-27 @ 0.5'
1E27006-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:30	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:30	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:30	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:30	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %		80-120		P1E2803	05/28/21 09:14	05/29/21 14:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2803	05/28/21 09:14	05/29/21 14:30	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13100	54.9	mg/kg dry	50	P1E2812	05/28/21 13:27	05/30/21 11:55	EPA 300.0	
% Moisture	9.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 16:51	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 16:51	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 16:51	TPH 8015M	
Surrogate: 1-Chlorooctane	125 %		70-130		P1E2807	05/28/21 10:20	05/29/21 16:51	TPH 8015M	
Surrogate: o-Terphenyl	145 %		70-130		P1E2807	05/28/21 10:20	05/29/21 16:51	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 16:51	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-28 @ 0.5'
1E27006-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:51	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:51	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:51	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:51	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 14:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	106 %		80-120		P1E2803	05/28/21 09:14	05/29/21 14:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	109 %		80-120		P1E2803	05/28/21 09:14	05/29/21 14:51	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12100	54.3	mg/kg dry	50	P1E2812	05/28/21 13:27	05/30/21 12:15	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 17:13	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 17:13	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 17:13	TPH 8015M	
Surrogate: 1-Chlorooctane	123 %		70-130		P1E2807	05/28/21 10:20	05/29/21 17:13	TPH 8015M	
Surrogate: o-Terphenyl	143 %		70-130		P1E2807	05/28/21 10:20	05/29/21 17:13	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 17:13	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-28 @ 1'
1E27006-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:12	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:12	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:12	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:12	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P1E2803	05/28/21 09:14	05/29/21 15:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2803	05/28/21 09:14	05/29/21 15:12	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9820	27.2	mg/kg dry	25	P1E2812	05/28/21 13:27	05/30/21 12:34	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 17:36	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 17:36	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 17:36	TPH 8015M	
Surrogate: 1-Chlorooctane	120 %		70-130		P1E2807	05/28/21 10:20	05/29/21 17:36	TPH 8015M	
Surrogate: o-Terphenyl	141 %		70-130		P1E2807	05/28/21 10:20	05/29/21 17:36	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 17:36	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-29 @ 0.5'
1E27006-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:32	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:32	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:32	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:32	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	108 %		80-120		P1E2803	05/28/21 09:14	05/29/21 15:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %		80-120		P1E2803	05/28/21 09:14	05/29/21 15:32	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4530	10.5	mg/kg dry	10	P1E2812	05/28/21 13:27	05/30/21 12:54	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 17:59	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 17:59	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 17:59	TPH 8015M	
Surrogate: 1-Chlorooctane	116 %		70-130		P1E2807	05/28/21 10:20	05/29/21 17:59	TPH 8015M	
Surrogate: o-Terphenyl	136 %		70-130		P1E2807	05/28/21 10:20	05/29/21 17:59	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 17:59	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-29 @ 1'
1E27006-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:53	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:53	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:53	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:53	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 15:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P1E2803	05/28/21 09:14	05/29/21 15:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	107 %		80-120		P1E2803	05/28/21 09:14	05/29/21 15:53	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5000	11.1	mg/kg dry	10	P1E2812	05/28/21 13:27	05/30/21 13:13	EPA 300.0	
% Moisture	10.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 18:21	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 18:21	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 18:21	TPH 8015M	
Surrogate: 1-Chlorooctane	122 %		70-130		P1E2807	05/28/21 10:20	05/29/21 18:21	TPH 8015M	
Surrogate: o-Terphenyl	139 %		70-130		P1E2807	05/28/21 10:20	05/29/21 18:21	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 18:21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-30 @ 0.5'
1E27006-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 16:55	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 16:55	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 16:55	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 16:55	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 16:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.8 %		80-120		P1E2803	05/28/21 09:14	05/29/21 16:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %		80-120		P1E2803	05/28/21 09:14	05/29/21 16:55	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5210	26.0	mg/kg dry	25	P1E2812	05/28/21 13:27	05/30/21 14:12	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 14:21	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 14:21	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 14:21	TPH 8015M	
Surrogate: 1-Chlorooctane	93.5 %		70-130		P1E2808	05/28/21 11:00	05/29/21 14:21	TPH 8015M	
Surrogate: o-Terphenyl	96.1 %		70-130		P1E2808	05/28/21 11:00	05/29/21 14:21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 14:21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-30 @ 1'
1E27006-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:16	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:16	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:16	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:16	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P1E2803	05/28/21 09:14	05/29/21 17:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	108 %		80-120		P1E2803	05/28/21 09:14	05/29/21 17:16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5960	25.8	mg/kg dry	25	P1E2812	05/28/21 13:27	05/30/21 15:11	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 14:43	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 14:43	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 14:43	TPH 8015M	
Surrogate: 1-Chlorooctane	95.4 %		70-130		P1E2808	05/28/21 11:00	05/29/21 14:43	TPH 8015M	
Surrogate: o-Terphenyl	97.5 %		70-130		P1E2808	05/28/21 11:00	05/29/21 14:43	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 14:43	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-31 @ 0.5'
1E27006-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:37	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:37	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:37	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:37	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.8 %		80-120		P1E2803	05/28/21 09:14	05/29/21 17:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %		80-120		P1E2803	05/28/21 09:14	05/29/21 17:37	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5960	26.3	mg/kg dry	25	P1E2812	05/28/21 13:27	05/30/21 15:30	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 15:06	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 15:06	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 15:06	TPH 8015M	
Surrogate: 1-Chlorooctane	95.1 %		70-130		P1E2808	05/28/21 11:00	05/29/21 15:06	TPH 8015M	
Surrogate: o-Terphenyl	97.5 %		70-130		P1E2808	05/28/21 11:00	05/29/21 15:06	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 15:06	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-31 @ 1'
1E27006-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:58	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:58	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:58	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:58	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 17:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	109 %	80-120			P1E2803	05/28/21 09:14	05/29/21 17:58	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %	80-120			P1E2803	05/28/21 09:14	05/29/21 17:58	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8500	26.0	mg/kg dry	25	P1E2812	05/28/21 13:27	05/30/21 15:50	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 15:29	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 15:29	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 15:29	TPH 8015M	
Surrogate: 1-Chlorooctane	103 %	70-130			P1E2808	05/28/21 11:00	05/29/21 15:29	TPH 8015M	
Surrogate: o-Terphenyl	105 %	70-130			P1E2808	05/28/21 11:00	05/29/21 15:29	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 15:29	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-32 @ 0.5'
1E27006-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 18:18	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 18:18	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 18:18	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 18:18	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 18:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2803	05/28/21 09:14	05/29/21 18:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2803	05/28/21 09:14	05/29/21 18:18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	11100	26.6	mg/kg dry	25	P1E2812	05/28/21 13:27	05/30/21 16:09	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 15:51	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 15:51	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 15:51	TPH 8015M	
Surrogate: 1-Chlorooctane	98.9 %		70-130		P1E2808	05/28/21 11:00	05/29/21 15:51	TPH 8015M	
Surrogate: o-Terphenyl	102 %		70-130		P1E2808	05/28/21 11:00	05/29/21 15:51	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 15:51	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-32 @ 1'
1E27006-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 18:39	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 18:39	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 18:39	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 18:39	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 18:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2803	05/28/21 09:14	05/29/21 18:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P1E2803	05/28/21 09:14	05/29/21 18:39	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3290	10.8	mg/kg dry	10	P1E2812	05/28/21 13:27	05/30/21 16:29	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 16:14	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 16:14	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 16:14	TPH 8015M	
Surrogate: 1-Chlorooctane	98.6 %		70-130		P1E2808	05/28/21 11:00	05/29/21 16:14	TPH 8015M	
Surrogate: o-Terphenyl	100 %		70-130		P1E2808	05/28/21 11:00	05/29/21 16:14	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 16:14	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-33 @ 0.5'
1E27006-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:00	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:00	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:00	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:00	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2803	05/28/21 09:14	05/29/21 19:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %		80-120		P1E2803	05/28/21 09:14	05/29/21 19:00	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7050	26.6	mg/kg dry	25	P1E2812	05/28/21 13:27	05/30/21 16:48	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 16:37	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 16:37	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 16:37	TPH 8015M	
Surrogate: 1-Chlorooctane	99.6 %		70-130		P1E2808	05/28/21 11:00	05/29/21 16:37	TPH 8015M	
Surrogate: o-Terphenyl	100 %		70-130		P1E2808	05/28/21 11:00	05/29/21 16:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 16:37	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-33 @ 1'
1E27006-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:21	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:21	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:21	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:21	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2803	05/28/21 09:14	05/29/21 19:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P1E2803	05/28/21 09:14	05/29/21 19:21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6210	25.5	mg/kg dry	25	P1E2812	05/28/21 13:27	05/30/21 17:08	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 16:59	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 16:59	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 16:59	TPH 8015M	
Surrogate: 1-Chlorooctane	93.5 %		70-130		P1E2808	05/28/21 11:00	05/29/21 16:59	TPH 8015M	
Surrogate: o-Terphenyl	95.0 %		70-130		P1E2808	05/28/21 11:00	05/29/21 16:59	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 16:59	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-34 @ 0.5'
1E27006-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:42	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:42	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:42	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:42	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 19:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %		80-120		P1E2803	05/28/21 09:14	05/29/21 19:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2803	05/28/21 09:14	05/29/21 19:42	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4080	10.3	mg/kg dry	10	P1E2812	05/28/21 13:27	05/30/21 17:27	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 17:22	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 17:22	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 17:22	TPH 8015M	
Surrogate: 1-Chlorooctane	97.0 %		70-130		P1E2808	05/28/21 11:00	05/29/21 17:22	TPH 8015M	
Surrogate: o-Terphenyl	98.9 %		70-130		P1E2808	05/28/21 11:00	05/29/21 17:22	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 17:22	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-35 @ 0.5'
1E27006-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 20:02	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 20:02	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 20:02	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 20:02	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P1E2803	05/28/21 09:14	05/29/21 20:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P1E2803	05/28/21 09:14	05/29/21 20:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2803	05/28/21 09:14	05/29/21 20:02	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	17.0	1.02	mg/kg dry	1	P1E2812	05/28/21 13:27	05/30/21 17:47	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 17:45	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 17:45	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 17:45	TPH 8015M	
Surrogate: 1-Chlorooctane	94.7 %		70-130		P1E2808	05/28/21 11:00	05/29/21 17:45	TPH 8015M	
Surrogate: o-Terphenyl	97.9 %		70-130		P1E2808	05/28/21 11:00	05/29/21 17:45	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 17:45	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-35 @ 1'
1E27006-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 22:46	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 22:46	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 22:46	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 22:46	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 22:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	106 %		80-120		P1E2804	05/28/21 09:17	05/29/21 22:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2804	05/28/21 09:17	05/29/21 22:46	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12.0	1.04	mg/kg dry	1	P1E2818	05/28/21 16:48	05/30/21 19:44	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 18:53	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 18:53	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 18:53	TPH 8015M	
Surrogate: 1-Chlorooctane	99.5 %		70-130		P1E2808	05/28/21 11:00	05/29/21 18:53	TPH 8015M	
Surrogate: o-Terphenyl	99.3 %		70-130		P1E2808	05/28/21 11:00	05/29/21 18:53	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 18:53	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-36 @ 0.5'
1E27006-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:07	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:07	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:07	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:07	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2804	05/28/21 09:17	05/29/21 23:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2804	05/28/21 09:17	05/29/21 23:07	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13.3	1.01	mg/kg dry	1	P1E2818	05/28/21 16:48	05/30/21 20:43	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 19:15	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 19:15	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 19:15	TPH 8015M	
Surrogate: 1-Chlorooctane	101 %		70-130		P1E2808	05/28/21 11:00	05/29/21 19:15	TPH 8015M	
Surrogate: o-Terphenyl	104 %		70-130		P1E2808	05/28/21 11:00	05/29/21 19:15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 19:15	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-36 @ 1'
1E27006-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:27	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:27	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:27	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:27	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.7 %		80-120		P1E2804	05/28/21 09:17	05/29/21 23:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	98.7 %		80-120		P1E2804	05/28/21 09:17	05/29/21 23:27	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.72	1.05	mg/kg dry	1	P1E2818	05/28/21 16:48	05/30/21 21:02	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 19:38	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 19:38	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 19:38	TPH 8015M	
Surrogate: 1-Chlorooctane	102 %		70-130		P1E2808	05/28/21 11:00	05/29/21 19:38	TPH 8015M	
Surrogate: o-Terphenyl	104 %		70-130		P1E2808	05/28/21 11:00	05/29/21 19:38	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 19:38	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-37 @ 0.5'
1E27006-44 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:48	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:48	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:48	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:48	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/29/21 23:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2804	05/28/21 09:17	05/29/21 23:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	107 %		80-120		P1E2804	05/28/21 09:17	05/29/21 23:48	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10100	26.3	mg/kg dry	25	P1E2818	05/28/21 16:48	05/30/21 21:22	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 20:00	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 20:00	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 20:00	TPH 8015M	
Surrogate: 1-Chlorooctane	98.5 %		70-130		P1E2808	05/28/21 11:00	05/29/21 20:00	TPH 8015M	
Surrogate: o-Terphenyl	100 %		70-130		P1E2808	05/28/21 11:00	05/29/21 20:00	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 20:00	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-37 @ 1'
1E27006-45 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:09	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:09	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:09	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:09	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2804	05/28/21 09:17	05/30/21 00:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	107 %		80-120		P1E2804	05/28/21 09:17	05/30/21 00:09	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3440	10.8	mg/kg dry	10	P1E2818	05/28/21 16:48	05/30/21 21:41	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 20:23	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 20:23	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 20:23	TPH 8015M	
Surrogate: 1-Chlorooctane	101 %		70-130		P1E2808	05/28/21 11:00	05/29/21 20:23	TPH 8015M	
Surrogate: o-Terphenyl	103 %		70-130		P1E2808	05/28/21 11:00	05/29/21 20:23	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 20:23	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-38 @ 0.5'
1E27006-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:29	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:29	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:29	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:29	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:29	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	97.5 %		80-120		P1E2804	05/28/21 09:17	05/30/21 00:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	99.9 %		80-120		P1E2804	05/28/21 09:17	05/30/21 00:29	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.32	1.01	mg/kg dry	1	P1E2818	05/28/21 16:48	05/30/21 22:01	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 20:45	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 20:45	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 20:45	TPH 8015M	
Surrogate: 1-Chlorooctane	99.2 %		70-130		P1E2808	05/28/21 11:00	05/29/21 20:45	TPH 8015M	
Surrogate: o-Terphenyl	101 %		70-130		P1E2808	05/28/21 11:00	05/29/21 20:45	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 20:45	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-39 @ 0.5'
1E27006-47 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:50	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:50	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:50	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:50	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 00:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2804	05/28/21 09:17	05/30/21 00:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2804	05/28/21 09:17	05/30/21 00:50	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12800	52.6	mg/kg dry	50	P1E2818	05/28/21 16:48	05/30/21 22:20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 21:08	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 21:08	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 21:08	TPH 8015M	
Surrogate: 1-Chlorooctane	103 %		70-130		P1E2808	05/28/21 11:00	05/29/21 21:08	TPH 8015M	
Surrogate: o-Terphenyl	106 %		70-130		P1E2808	05/28/21 11:00	05/29/21 21:08	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 21:08	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-39 @ 1'
1E27006-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:11	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:11	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:11	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:11	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1E2804	05/28/21 09:17	05/30/21 01:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.4 %		80-120		P1E2804	05/28/21 09:17	05/30/21 01:11	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6380	26.6	mg/kg dry	25	P1E2818	05/28/21 16:48	05/30/21 22:40	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 21:30	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 21:30	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 21:30	TPH 8015M	
Surrogate: 1-Chlorooctane	101 %		70-130		P1E2808	05/28/21 11:00	05/29/21 21:30	TPH 8015M	
Surrogate: o-Terphenyl	104 %		70-130		P1E2808	05/28/21 11:00	05/29/21 21:30	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 21:30	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-40 @ 0.5'
1E27006-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:31	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:31	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:31	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:31	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2804	05/28/21 09:17	05/30/21 01:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2804	05/28/21 09:17	05/30/21 01:31	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	19300	53.8	mg/kg dry	50	P1E2818	05/28/21 16:48	05/30/21 23:00	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 21:52	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 21:52	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 21:52	TPH 8015M	
Surrogate: 1-Chlorooctane	106 %		70-130		P1E2808	05/28/21 11:00	05/29/21 21:52	TPH 8015M	
Surrogate: o-Terphenyl	109 %		70-130		P1E2808	05/28/21 11:00	05/29/21 21:52	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 21:52	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-41 @ 0.5'
1E27006-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:52	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:52	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:52	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:52	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 01:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2804	05/28/21 09:17	05/30/21 01:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2804	05/28/21 09:17	05/30/21 01:52	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9290	26.9	mg/kg dry	25	P1E2818	05/28/21 16:48	05/30/21 23:19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 22:14	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 22:14	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2808	05/28/21 11:00	05/29/21 22:14	TPH 8015M	
Surrogate: 1-Chlorooctane	102 %		70-130		P1E2808	05/28/21 11:00	05/29/21 22:14	TPH 8015M	
Surrogate: o-Terphenyl	105 %		70-130		P1E2808	05/28/21 11:00	05/29/21 22:14	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 11:00	05/29/21 22:14	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-41 @ 1'
1E27006-51 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 02:54	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 02:54	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 02:54	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 02:54	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 02:54	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1E2804	05/28/21 09:17	05/30/21 02:54	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.2 %		80-120		P1E2804	05/28/21 09:17	05/30/21 02:54	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5830	26.6	mg/kg dry	25	P1E2818	05/28/21 16:48	05/31/21 00:18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 21:20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 21:20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 21:20	TPH 8015M	
Surrogate: 1-Chlorooctane	110 %		70-130		P1E2813	05/28/21 13:30	05/29/21 21:20	TPH 8015M	
Surrogate: o-Terphenyl	124 %		70-130		P1E2813	05/28/21 13:30	05/29/21 21:20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 13:30	05/29/21 21:20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-42 @ 0.5'
1E27006-52 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:15	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:15	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:15	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:15	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	100 %		80-120		P1E2804	05/28/21 09:17	05/30/21 03:15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.0 %		80-120		P1E2804	05/28/21 09:17	05/30/21 03:15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	27.4	1.01	mg/kg dry	1	P1E2818	05/28/21 16:48	05/31/21 01:16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 21:42	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 21:42	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 21:42	TPH 8015M	
Surrogate: 1-Chlorooctane	106 %		70-130		P1E2813	05/28/21 13:30	05/29/21 21:42	TPH 8015M	
Surrogate: o-Terphenyl	118 %		70-130		P1E2813	05/28/21 13:30	05/29/21 21:42	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/28/21 13:30	05/29/21 21:42	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-42 @ 1'
1E27006-53 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:35	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:35	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:35	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:35	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2804	05/28/21 09:17	05/30/21 03:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %		80-120		P1E2804	05/28/21 09:17	05/30/21 03:35	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	30.0	1.00	mg/kg dry	1	P1E2818	05/28/21 16:48	05/31/21 01:36	EPA 300.0	
% Moisture	ND	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 22:04	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 22:04	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 22:04	TPH 8015M	
Surrogate: 1-Chlorooctane	105 %		70-130		P1E2813	05/28/21 13:30	05/29/21 22:04	TPH 8015M	
Surrogate: o-Terphenyl	115 %		70-130		P1E2813	05/28/21 13:30	05/29/21 22:04	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	05/28/21 13:30	05/29/21 22:04	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-43 @ 0.5'
1E27006-54 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:56	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:56	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:56	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:56	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 03:56	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2804	05/28/21 09:17	05/30/21 03:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2804	05/28/21 09:17	05/30/21 03:56	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7060	25.5	mg/kg dry	25	P1E2818	05/28/21 16:48	05/31/21 01:55	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 22:26	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 22:26	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 22:26	TPH 8015M	
Surrogate: 1-Chlorooctane	103 %		70-130		P1E2813	05/28/21 13:30	05/29/21 22:26	TPH 8015M	
Surrogate: o-Terphenyl	115 %		70-130		P1E2813	05/28/21 13:30	05/29/21 22:26	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/28/21 13:30	05/29/21 22:26	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-43 @ 1'
1E27006-55 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:17	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:17	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:17	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:17	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2804	05/28/21 09:17	05/30/21 04:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	106 %		80-120		P1E2804	05/28/21 09:17	05/30/21 04:17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	741	1.00	mg/kg dry	1	P1E2818	05/28/21 16:48	05/31/21 02:15	EPA 300.0	
% Moisture	ND	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 22:48	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 22:48	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 22:48	TPH 8015M	
Surrogate: 1-Chlorooctane	104 %		70-130		P1E2813	05/28/21 13:30	05/29/21 22:48	TPH 8015M	
Surrogate: o-Terphenyl	116 %		70-130		P1E2813	05/28/21 13:30	05/29/21 22:48	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	05/28/21 13:30	05/29/21 22:48	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-44 @ 0.5'
1E27006-56 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:37	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:37	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:37	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:37	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2804	05/28/21 09:17	05/30/21 04:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P1E2804	05/28/21 09:17	05/30/21 04:37	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.6	1.01	mg/kg dry	1	P1E2818	05/28/21 16:48	05/31/21 02:34	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 23:10	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 23:10	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 23:10	TPH 8015M	
Surrogate: 1-Chlorooctane	104 %		70-130		P1E2813	05/28/21 13:30	05/29/21 23:10	TPH 8015M	
Surrogate: o-Terphenyl	114 %		70-130		P1E2813	05/28/21 13:30	05/29/21 23:10	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/28/21 13:30	05/29/21 23:10	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-44 @ 1'
1E27006-57 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:58	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:58	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:58	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:58	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 04:58	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2804	05/28/21 09:17	05/30/21 04:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %		80-120		P1E2804	05/28/21 09:17	05/30/21 04:58	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	40.2	1.04	mg/kg dry	1	P1E2818	05/28/21 16:48	05/31/21 02:54	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 23:33	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 23:33	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 23:33	TPH 8015M	
Surrogate: 1-Chlorooctane	104 %		70-130		P1E2813	05/28/21 13:30	05/29/21 23:33	TPH 8015M	
Surrogate: o-Terphenyl	117 %		70-130		P1E2813	05/28/21 13:30	05/29/21 23:33	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/28/21 13:30	05/29/21 23:33	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-45 @ 0.5'
1E27006-58 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00115	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:18	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:18	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:18	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:18	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	97.9 %		80-120		P1E2804	05/28/21 09:17	05/30/21 05:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1E2804	05/28/21 09:17	05/30/21 05:18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13600	57.5	mg/kg dry	50	P1E2818	05/28/21 16:48	05/31/21 03:13	EPA 300.0	
% Moisture	13.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 23:55	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 23:55	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P1E2813	05/28/21 13:30	05/29/21 23:55	TPH 8015M	
Surrogate: 1-Chlorooctane	105 %		70-130		P1E2813	05/28/21 13:30	05/29/21 23:55	TPH 8015M	
Surrogate: o-Terphenyl	119 %		70-130		P1E2813	05/28/21 13:30	05/29/21 23:55	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	05/28/21 13:30	05/29/21 23:55	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-46 @ 0.5'
1E27006-59 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:39	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:39	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:39	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:39	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	106 %		80-120		P1E2804	05/28/21 09:17	05/30/21 05:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2804	05/28/21 09:17	05/30/21 05:39	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	11100	54.9	mg/kg dry	50	P1E2818	05/28/21 16:48	05/31/21 03:33	EPA 300.0	
% Moisture	9.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 00:17	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 00:17	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 00:17	TPH 8015M	
Surrogate: 1-Chlorooctane	106 %		70-130		P1E2813	05/28/21 13:30	05/30/21 00:17	TPH 8015M	
Surrogate: o-Terphenyl	120 %		70-130		P1E2813	05/28/21 13:30	05/30/21 00:17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/28/21 13:30	05/30/21 00:17	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-47 @ 0.5'
1E27006-60 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:59	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:59	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:59	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:59	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1E2804	05/28/21 09:17	05/30/21 05:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	107 %		80-120		P1E2804	05/28/21 09:17	05/30/21 05:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2804	05/28/21 09:17	05/30/21 05:59	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9440	26.3	mg/kg dry	25	P1E2818	05/28/21 16:48	05/31/21 03:52	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 00:39	TPH 8015M	
>C12-C28	38.2	26.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 00:39	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 00:39	TPH 8015M	
Surrogate: 1-Chlorooctane	103 %		70-130		P1E2813	05/28/21 13:30	05/30/21 00:39	TPH 8015M	
Surrogate: o-Terphenyl	116 %		70-130		P1E2813	05/28/21 13:30	05/30/21 00:39	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	38.2	26.3	mg/kg dry	1	[CALC]	05/28/21 13:30	05/30/21 00:39	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-48 @ 0.5'
1E27007-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:04	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:04	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:04	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:04	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	99.7 %		80-120		P1E2815	05/28/21 13:45	05/30/21 13:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P1E2815	05/28/21 13:45	05/30/21 13:04	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	52.9	1.01	mg/kg dry	1	P1E2819	05/28/21 16:49	05/31/21 09:41	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 01:46	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 01:46	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 01:46	TPH 8015M	
Surrogate: 1-Chlorooctane	101 %		70-130		P1E2813	05/28/21 13:30	05/30/21 01:46	TPH 8015M	
Surrogate: o-Terphenyl	112 %		70-130		P1E2813	05/28/21 13:30	05/30/21 01:46	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/28/21 13:30	05/30/21 01:46	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-49 @ 0.5'
1E27007-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:25	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:25	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:25	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:25	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	106 %		80-120		P1E2815	05/28/21 13:45	05/30/21 13:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	108 %		80-120		P1E2815	05/28/21 13:45	05/30/21 13:25	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8530	27.8	mg/kg dry	25	P1E2819	05/28/21 16:49	05/31/21 10:39	EPA 300.0	
% Moisture	10.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 02:08	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 02:08	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 02:08	TPH 8015M	
Surrogate: 1-Chlorooctane	102 %		70-130		P1E2813	05/28/21 13:30	05/30/21 02:08	TPH 8015M	
Surrogate: o-Terphenyl	114 %		70-130		P1E2813	05/28/21 13:30	05/30/21 02:08	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	05/28/21 13:30	05/30/21 02:08	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-50 @ 0.5'
1E27007-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:45	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:45	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:45	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:45	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 13:45	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2815	05/28/21 13:45	05/30/21 13:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	96.1 %		80-120		P1E2815	05/28/21 13:45	05/30/21 13:45	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8780	26.3	mg/kg dry	25	P1E2819	05/28/21 16:49	05/31/21 10:59	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 02:30	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 02:30	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 02:30	TPH 8015M	
Surrogate: 1-Chlorooctane	103 %		70-130		P1E2813	05/28/21 13:30	05/30/21 02:30	TPH 8015M	
Surrogate: o-Terphenyl	116 %		70-130		P1E2813	05/28/21 13:30	05/30/21 02:30	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/28/21 13:30	05/30/21 02:30	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-51 @ 0.5'
1E27007-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:06	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:06	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:06	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:06	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:06	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2815	05/28/21 13:45	05/30/21 14:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	100 %		80-120		P1E2815	05/28/21 13:45	05/30/21 14:06	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7240	26.3	mg/kg dry	25	P1E2819	05/28/21 16:49	05/31/21 11:18	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 02:53	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 02:53	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 02:53	TPH 8015M	
Surrogate: 1-Chlorooctane	102 %		70-130		P1E2813	05/28/21 13:30	05/30/21 02:53	TPH 8015M	
Surrogate: o-Terphenyl	115 %		70-130		P1E2813	05/28/21 13:30	05/30/21 02:53	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/28/21 13:30	05/30/21 02:53	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-52 @ 0.5'
1E27007-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:26	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:26	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:26	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:26	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %		80-120		P1E2815	05/28/21 13:45	05/30/21 14:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %		80-120		P1E2815	05/28/21 13:45	05/30/21 14:26	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9920	27.2	mg/kg dry	25	P1E2819	05/28/21 16:49	05/31/21 11:38	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 03:15	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 03:15	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 03:15	TPH 8015M	
Surrogate: 1-Chlorooctane	105 %		70-130		P1E2813	05/28/21 13:30	05/30/21 03:15	TPH 8015M	
Surrogate: o-Terphenyl	117 %		70-130		P1E2813	05/28/21 13:30	05/30/21 03:15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 13:30	05/30/21 03:15	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-53 @ 0.5'
1E27007-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:47	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:47	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:47	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:47	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 14:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2815	05/28/21 13:45	05/30/21 14:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P1E2815	05/28/21 13:45	05/30/21 14:47	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8280	26.3	mg/kg dry	25	P1E2819	05/28/21 16:49	05/31/21 11:57	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 03:38	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 03:38	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 03:38	TPH 8015M	
Surrogate: 1-Chlorooctane	101 %		70-130		P1E2813	05/28/21 13:30	05/30/21 03:38	TPH 8015M	
Surrogate: o-Terphenyl	112 %		70-130		P1E2813	05/28/21 13:30	05/30/21 03:38	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/28/21 13:30	05/30/21 03:38	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

D-1 @ 0.5'
1E27007-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:07	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:07	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:07	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:07	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P1E2815	05/28/21 13:45	05/30/21 15:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	98.7 %		80-120		P1E2815	05/28/21 13:45	05/30/21 15:07	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	42.5	1.02	mg/kg dry	1	P1E2819	05/28/21 16:49	05/31/21 12:17	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 04:00	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 04:00	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 04:00	TPH 8015M	
Surrogate: 1-Chlorooctane	100 %		70-130		P1E2813	05/28/21 13:30	05/30/21 04:00	TPH 8015M	
Surrogate: o-Terphenyl	112 %		70-130		P1E2813	05/28/21 13:30	05/30/21 04:00	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/28/21 13:30	05/30/21 04:00	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

D-2 @ 0.5'
1E27007-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:28	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:28	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:28	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:28	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P1E2815	05/28/21 13:45	05/30/21 15:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %		80-120		P1E2815	05/28/21 13:45	05/30/21 15:28	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	19.8	1.01	mg/kg dry	1	P1E2819	05/28/21 16:49	05/31/21 12:36	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 04:22	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 04:22	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 04:22	TPH 8015M	
Surrogate: 1-Chlorooctane	106 %		70-130		P1E2813	05/28/21 13:30	05/30/21 04:22	TPH 8015M	
Surrogate: o-Terphenyl	117 %		70-130		P1E2813	05/28/21 13:30	05/30/21 04:22	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/28/21 13:30	05/30/21 04:22	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

D-2 @ 1'
1E27007-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:48	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:48	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:48	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:48	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 15:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	97.9 %		80-120		P1E2815	05/28/21 13:45	05/30/21 15:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2815	05/28/21 13:45	05/30/21 15:48	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.9	1.02	mg/kg dry	1	P1E2819	05/28/21 16:49	05/31/21 12:56	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 04:45	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 04:45	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 04:45	TPH 8015M	
Surrogate: 1-Chlorooctane	102 %		70-130		P1E2813	05/28/21 13:30	05/30/21 04:45	TPH 8015M	
Surrogate: o-Terphenyl	114 %		70-130		P1E2813	05/28/21 13:30	05/30/21 04:45	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/28/21 13:30	05/30/21 04:45	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

D-3 @ 0.5'
1E27007-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 16:09	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 16:09	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 16:09	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 16:09	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 16:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2815	05/28/21 13:45	05/30/21 16:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	106 %		80-120		P1E2815	05/28/21 13:45	05/30/21 16:09	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.8	1.00	mg/kg dry	1	P1E2819	05/28/21 16:49	05/31/21 13:15	EPA 300.0	
% Moisture	ND	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 05:07	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 05:07	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P1E2813	05/28/21 13:30	05/30/21 05:07	TPH 8015M	
Surrogate: 1-Chlorooctane	104 %		70-130		P1E2813	05/28/21 13:30	05/30/21 05:07	TPH 8015M	
Surrogate: o-Terphenyl	116 %		70-130		P1E2813	05/28/21 13:30	05/30/21 05:07	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	05/28/21 13:30	05/30/21 05:07	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

D-4 @ 0.5'
1E27007-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:11	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:11	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:11	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:11	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2815	05/28/21 13:45	05/30/21 17:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	99.4 %		80-120		P1E2815	05/28/21 13:45	05/30/21 17:11	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	32.8	1.02	mg/kg dry	1	P1E2819	05/28/21 16:49	05/31/21 14:14	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P1E2814	05/28/21 13:33	05/30/21 12:22	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P1E2814	05/28/21 13:33	05/30/21 12:22	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1E2814	05/28/21 13:33	05/30/21 12:22	TPH 8015M	
Surrogate: 1-Chlorooctane	105 %		70-130		P1E2814	05/28/21 13:33	05/30/21 12:22	TPH 8015M	
Surrogate: o-Terphenyl	118 %		70-130		P1E2814	05/28/21 13:33	05/30/21 12:22	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/28/21 13:33	05/30/21 12:22	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-54 @ 0.5'
1E27007-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:31	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:31	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:31	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:31	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	106 %		80-120		P1E2815	05/28/21 13:45	05/30/21 17:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P1E2815	05/28/21 13:45	05/30/21 17:31	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10800	54.3	mg/kg dry	50	P1E2819	05/28/21 16:49	05/31/21 15:13	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2814	05/28/21 13:33	05/30/21 12:45	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2814	05/28/21 13:33	05/30/21 12:45	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2814	05/28/21 13:33	05/30/21 12:45	TPH 8015M	
Surrogate: 1-Chlorooctane	108 %		70-130		P1E2814	05/28/21 13:33	05/30/21 12:45	TPH 8015M	
Surrogate: o-Terphenyl	119 %		70-130		P1E2814	05/28/21 13:33	05/30/21 12:45	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 13:33	05/30/21 12:45	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-54 @ 1'
1E27007-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:52	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:52	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:52	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:52	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 17:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	108 %		80-120		P1E2815	05/28/21 13:45	05/30/21 17:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P1E2815	05/28/21 13:45	05/30/21 17:52	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8540	27.2	mg/kg dry	25	P1E2819	05/28/21 16:49	05/31/21 15:32	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 17:18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 17:18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 17:18	TPH 8015M	
Surrogate: 1-Chlorooctane	110 %		70-130		P1E2805	05/28/21 10:19	05/28/21 17:18	TPH 8015M	
Surrogate: o-Terphenyl	117 %		70-130		P1E2805	05/28/21 10:19	05/28/21 17:18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 17:18	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-55 @ 0.5'
1E27007-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:12	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:12	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:12	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:12	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %		80-120		P1E2815	05/28/21 13:45	05/30/21 18:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %		80-120		P1E2815	05/28/21 13:45	05/30/21 18:12	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	14700	53.8	mg/kg dry	50	P1E2819	05/28/21 16:49	05/31/21 15:52	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 17:40	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 17:40	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 17:40	TPH 8015M	
Surrogate: 1-Chlorooctane	120 %		70-130		P1E2805	05/28/21 10:19	05/28/21 17:40	TPH 8015M	
Surrogate: o-Terphenyl	127 %		70-130		P1E2805	05/28/21 10:19	05/28/21 17:40	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 17:40	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-55 @ 1'
1E27007-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:33	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:33	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:33	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:33	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2815	05/28/21 13:45	05/30/21 18:33	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2815	05/28/21 13:45	05/30/21 18:33	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4320	10.9	mg/kg dry	10	P1E2819	05/28/21 16:49	05/31/21 16:11	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 18:03	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 18:03	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 18:03	TPH 8015M	
Surrogate: 1-Chlorooctane	119 %		70-130		P1E2805	05/28/21 10:19	05/28/21 18:03	TPH 8015M	
Surrogate: o-Terphenyl	126 %		70-130		P1E2805	05/28/21 10:19	05/28/21 18:03	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 18:03	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-56 @ 0.5'
1E27007-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:53	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:53	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:53	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:53	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 18:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2815	05/28/21 13:45	05/30/21 18:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P1E2815	05/28/21 13:45	05/30/21 18:53	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	11400	53.8	mg/kg dry	50	P1E2819	05/28/21 16:49	05/31/21 16:31	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 18:26	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 18:26	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 18:26	TPH 8015M	
Surrogate: 1-Chlorooctane	116 %		70-130		P1E2805	05/28/21 10:19	05/28/21 18:26	TPH 8015M	
Surrogate: o-Terphenyl	122 %		70-130		P1E2805	05/28/21 10:19	05/28/21 18:26	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 18:26	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-56 @ 1'
1E27007-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:14	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:14	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:14	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:14	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %		80-120		P1E2815	05/28/21 13:45	05/30/21 19:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	99.4 %		80-120		P1E2815	05/28/21 13:45	05/30/21 19:14	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6070	27.2	mg/kg dry	25	P1E2819	05/28/21 16:49	05/31/21 16:50	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 18:49	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 18:49	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 18:49	TPH 8015M	
Surrogate: 1-Chlorooctane	118 %		70-130		P1E2805	05/28/21 10:19	05/28/21 18:49	TPH 8015M	
Surrogate: o-Terphenyl	126 %		70-130		P1E2805	05/28/21 10:19	05/28/21 18:49	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 18:49	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-57 @ 0.5'
1E27007-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:35	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:35	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:35	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:35	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2815	05/28/21 13:45	05/30/21 19:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1E2815	05/28/21 13:45	05/30/21 19:35	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	11600	27.2	mg/kg dry	25	P1E2819	05/28/21 16:49	05/31/21 17:10	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 19:11	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 19:11	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 19:11	TPH 8015M	
Surrogate: 1-Chlorooctane	119 %		70-130		P1E2805	05/28/21 10:19	05/28/21 19:11	TPH 8015M	
Surrogate: o-Terphenyl	126 %		70-130		P1E2805	05/28/21 10:19	05/28/21 19:11	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 19:11	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-57 @ 1'
1E27007-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:55	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:55	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:55	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:55	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 19:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %		80-120		P1E2815	05/28/21 13:45	05/30/21 19:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P1E2815	05/28/21 13:45	05/30/21 19:55	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7920	26.9	mg/kg dry	25	P1E2819	05/28/21 16:49	05/31/21 17:29	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 20:19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 20:19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 20:19	TPH 8015M	
Surrogate: 1-Chlorooctane	129 %		70-130		P1E2805	05/28/21 10:19	05/28/21 20:19	TPH 8015M	
Surrogate: o-Terphenyl	136 %		70-130		P1E2805	05/28/21 10:19	05/28/21 20:19	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 20:19	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-58 @ 0.5'
1E27007-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 20:16	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 20:16	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 20:16	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 20:16	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2815	05/28/21 13:45	05/30/21 20:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	97.8 %		80-120		P1E2815	05/28/21 13:45	05/30/21 20:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P1E2815	05/28/21 13:45	05/30/21 20:16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9190	26.6	mg/kg dry	25	P1E2819	05/28/21 16:49	05/31/21 17:49	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 20:41	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 20:41	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 20:41	TPH 8015M	
Surrogate: 1-Chlorooctane	123 %		70-130		P1E2805	05/28/21 10:19	05/28/21 20:41	TPH 8015M	
Surrogate: o-Terphenyl	131 %		70-130		P1E2805	05/28/21 10:19	05/28/21 20:41	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 20:41	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-58 @ 1'
1E27007-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:00	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:00	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:00	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:00	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	96.1 %		80-120		P1E2816	05/28/21 13:48	05/30/21 23:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	97.4 %		80-120		P1E2816	05/28/21 13:48	05/30/21 23:00	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8810	27.2	mg/kg dry	25	P1E2820	05/28/21 16:49	05/31/21 20:25	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 21:03	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 21:03	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 21:03	TPH 8015M	
Surrogate: 1-Chlorooctane	126 %		70-130		P1E2805	05/28/21 10:19	05/28/21 21:03	TPH 8015M	
Surrogate: o-Terphenyl	135 %		70-130		P1E2805	05/28/21 10:19	05/28/21 21:03	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 21:03	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-59 @ 0.5'
1E27007-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:21	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:21	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:21	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:21	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2816	05/28/21 13:48	05/30/21 23:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1E2816	05/28/21 13:48	05/30/21 23:21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	17700	56.8	mg/kg dry	50	P1E2820	05/28/21 16:49	05/31/21 20:45	EPA 300.0	
% Moisture	12.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 21:25	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 21:25	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 21:25	TPH 8015M	
Surrogate: 1-Chlorooctane	122 %		70-130		P1E2805	05/28/21 10:19	05/28/21 21:25	TPH 8015M	
Surrogate: o-Terphenyl	130 %		70-130		P1E2805	05/28/21 10:19	05/28/21 21:25	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 21:25	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-59 @ 1'
1E27007-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:41	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:41	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:41	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:41	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/30/21 23:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %		80-120		P1E2816	05/28/21 13:48	05/30/21 23:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P1E2816	05/28/21 13:48	05/30/21 23:41	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8390	26.6	mg/kg dry	25	P1E2820	05/28/21 16:49	05/31/21 21:04	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 21:48	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 21:48	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 21:48	TPH 8015M	
Surrogate: 1-Chlorooctane	119 %		70-130		P1E2805	05/28/21 10:19	05/28/21 21:48	TPH 8015M	
Surrogate: o-Terphenyl	126 %		70-130		P1E2805	05/28/21 10:19	05/28/21 21:48	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 21:48	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-60 @ 0.5'
1E27007-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:02	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:02	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:02	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:02	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %		80-120		P1E2816	05/28/21 13:48	05/31/21 00:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %		80-120		P1E2816	05/28/21 13:48	05/31/21 00:02	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12300	52.6	mg/kg dry	50	P1E2820	05/28/21 16:49	05/31/21 21:24	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 22:10	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 22:10	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 22:10	TPH 8015M	
Surrogate: 1-Chlorooctane	119 %		70-130		P1E2805	05/28/21 10:19	05/28/21 22:10	TPH 8015M	
Surrogate: o-Terphenyl	127 %		70-130		P1E2805	05/28/21 10:19	05/28/21 22:10	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 22:10	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-60 @ 1'
1E27007-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:23	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:23	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:23	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:23	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2816	05/28/21 13:48	05/31/21 00:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	108 %		80-120		P1E2816	05/28/21 13:48	05/31/21 00:23	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6180	26.6	mg/kg dry	25	P1E2820	05/28/21 16:49	05/31/21 21:43	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 22:32	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 22:32	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 22:32	TPH 8015M	
Surrogate: 1-Chlorooctane	123 %		70-130		P1E2805	05/28/21 10:19	05/28/21 22:32	TPH 8015M	
Surrogate: o-Terphenyl	132 %		70-130		P1E2805	05/28/21 10:19	05/28/21 22:32	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 22:32	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-61 @ 0.5'
1E27007-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:43	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:43	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:43	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:43	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 00:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %		80-120		P1E2816	05/28/21 13:48	05/31/21 00:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %		80-120		P1E2816	05/28/21 13:48	05/31/21 00:43	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1610	5.15	mg/kg dry	5	P1E2820	05/28/21 16:49	05/31/21 22:03	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 22:54	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 22:54	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P1E2805	05/28/21 10:19	05/28/21 22:54	TPH 8015M	
Surrogate: 1-Chlorooctane	116 %		70-130		P1E2805	05/28/21 10:19	05/28/21 22:54	TPH 8015M	
Surrogate: o-Terphenyl	124 %		70-130		P1E2805	05/28/21 10:19	05/28/21 22:54	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/28/21 10:19	05/28/21 22:54	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-61 @ 1'
1E27007-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:04	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:04	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:04	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:04	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %		80-120		P1E2816	05/28/21 13:48	05/31/21 01:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	107 %		80-120		P1E2816	05/28/21 13:48	05/31/21 01:04	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4370	10.4	mg/kg dry	10	P1E2820	05/28/21 16:49	05/31/21 22:22	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P1E2805	05/28/21 10:19	05/29/21 10:58	TPH 8015M	
>C12-C28	27.2	26.0	mg/kg dry	1	P1E2805	05/28/21 10:19	05/29/21 10:58	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P1E2805	05/28/21 10:19	05/29/21 10:58	TPH 8015M	
Surrogate: 1-Chlorooctane	129 %		70-130		P1E2805	05/28/21 10:19	05/29/21 10:58	TPH 8015M	
Surrogate: o-Terphenyl	139 %		70-130		P1E2805	05/28/21 10:19	05/29/21 10:58	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	27.2	26.0	mg/kg dry	1	[CALC]	05/28/21 10:19	05/29/21 10:58	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-62 @ 0.5'
1E27007-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:24	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:24	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:24	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:24	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.5 %		80-120		P1E2816	05/28/21 13:48	05/31/21 01:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	100 %		80-120		P1E2816	05/28/21 13:48	05/31/21 01:24	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10300	26.9	mg/kg dry	25	P1E2820	05/28/21 16:49	05/31/21 22:42	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2805	05/28/21 10:19	05/29/21 11:20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2805	05/28/21 10:19	05/29/21 11:20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2805	05/28/21 10:19	05/29/21 11:20	TPH 8015M	
Surrogate: 1-Chlorooctane	128 %		70-130		P1E2805	05/28/21 10:19	05/29/21 11:20	TPH 8015M	
Surrogate: o-Terphenyl	136 %		70-130		P1E2805	05/28/21 10:19	05/29/21 11:20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 10:19	05/29/21 11:20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-62 @ 1'
1E27007-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:45	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:45	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:45	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:45	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 01:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	106 %		80-120		P1E2816	05/28/21 13:48	05/31/21 01:45	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2816	05/28/21 13:48	05/31/21 01:45	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7700	27.2	mg/kg dry	25	P1E2820	05/28/21 16:49	05/31/21 23:01	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/28/21 22:48	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/28/21 22:48	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/28/21 22:48	TPH 8015M	
Surrogate: 1-Chlorooctane	129 %		70-130		P1E2807	05/28/21 10:20	05/28/21 22:48	TPH 8015M	
Surrogate: o-Terphenyl	152 %		70-130		P1E2807	05/28/21 10:20	05/28/21 22:48	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 10:20	05/28/21 22:48	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-63 @ 0.5'
1E27007-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 02:06	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 02:06	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 02:06	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 02:06	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 02:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1E2816	05/28/21 13:48	05/31/21 02:06	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P1E2816	05/28/21 13:48	05/31/21 02:06	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8120	27.2	mg/kg dry	25	P1E2820	05/28/21 16:49	05/31/21 23:21	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 10:51	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 10:51	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 10:51	TPH 8015M	
Surrogate: 1-Chlorooctane	128 %		70-130		P1E2807	05/28/21 10:20	05/29/21 10:51	TPH 8015M	
Surrogate: o-Terphenyl	154 %		70-130		P1E2807	05/28/21 10:20	05/29/21 10:51	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 10:51	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-63 @ 1'
1E27007-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00120	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:07	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:07	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:07	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:07	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2816	05/28/21 13:48	05/31/21 03:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P1E2816	05/28/21 13:48	05/31/21 03:07	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	799	1.20	mg/kg dry	1	P1E2820	05/28/21 16:49	06/01/21 00:19	EPA 300.0	
% Moisture	17.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 11:13	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 11:13	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 11:13	TPH 8015M	
Surrogate: 1-Chlorooctane	126 %		70-130		P1E2807	05/28/21 10:20	05/29/21 11:13	TPH 8015M	
Surrogate: o-Terphenyl	148 %		70-130		P1E2807	05/28/21 10:20	05/29/21 11:13	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 11:13	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-64 @ 0.5'
1E27007-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:28	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:28	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:28	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:28	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2816	05/28/21 13:48	05/31/21 03:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1E2816	05/28/21 13:48	05/31/21 03:28	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	19700	53.8	mg/kg dry	50	P1E2820	05/28/21 16:49	06/01/21 01:18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 11:35	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 11:35	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 11:35	TPH 8015M	
Surrogate: 1-Chlorooctane	126 %		70-130		P1E2807	05/28/21 10:20	05/29/21 11:35	TPH 8015M	
Surrogate: o-Terphenyl	151 %		70-130		P1E2807	05/28/21 10:20	05/29/21 11:35	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 11:35	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-64 @ 1'
1E27007-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:49	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:49	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:49	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:49	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 03:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P1E2816	05/28/21 13:48	05/31/21 03:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %		80-120		P1E2816	05/28/21 13:48	05/31/21 03:49	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4660	10.6	mg/kg dry	10	P1E2820	05/28/21 16:49	06/01/21 01:38	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 11:57	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 11:57	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 11:57	TPH 8015M	
Surrogate: 1-Chlorooctane	129 %		70-130		P1E2807	05/28/21 10:20	05/29/21 11:57	TPH 8015M	
Surrogate: o-Terphenyl	152 %		70-130		P1E2807	05/28/21 10:20	05/29/21 11:57	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 11:57	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-65 @ 0.5'
1E27007-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:09	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:09	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:09	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:09	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P1E2816	05/28/21 13:48	05/31/21 04:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	107 %		80-120		P1E2816	05/28/21 13:48	05/31/21 04:09	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6160	26.6	mg/kg dry	25	P1E2820	05/28/21 16:49	06/01/21 01:57	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 12:20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 12:20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 12:20	TPH 8015M	
Surrogate: 1-Chlorooctane	128 %		70-130		P1E2807	05/28/21 10:20	05/29/21 12:20	TPH 8015M	
Surrogate: o-Terphenyl	149 %		70-130		P1E2807	05/28/21 10:20	05/29/21 12:20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 12:20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-65 @ 1'
1E27007-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:30	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:30	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:30	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:30	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P1E2816	05/28/21 13:48	05/31/21 04:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2816	05/28/21 13:48	05/31/21 04:30	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8210	27.2	mg/kg dry	25	P1E2820	05/28/21 16:49	06/01/21 02:17	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 12:42	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 12:42	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 12:42	TPH 8015M	
Surrogate: 1-Chlorooctane	123 %		70-130		P1E2807	05/28/21 10:20	05/29/21 12:42	TPH 8015M	
Surrogate: o-Terphenyl	146 %		70-130		P1E2807	05/28/21 10:20	05/29/21 12:42	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 12:42	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-66 @ 0.5'
1E27007-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:50	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:50	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:50	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:50	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 04:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P1E2816	05/28/21 13:48	05/31/21 04:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1E2816	05/28/21 13:48	05/31/21 04:50	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8290	26.9	mg/kg dry	25	P1E2820	05/28/21 16:49	06/01/21 02:36	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 13:05	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 13:05	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 13:05	TPH 8015M	
Surrogate: 1-Chlorooctane	123 %		70-130		P1E2807	05/28/21 10:20	05/29/21 13:05	TPH 8015M	
Surrogate: o-Terphenyl	146 %		70-130		P1E2807	05/28/21 10:20	05/29/21 13:05	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 13:05	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-67 @ 0.5'
1E27007-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:10	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:10	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:10	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:10	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %		80-120		P1E2816	05/28/21 13:48	05/31/21 05:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P1E2816	05/28/21 13:48	05/31/21 05:10	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	54.1	1.02	mg/kg dry	1	P1E2820	05/28/21 16:49	06/01/21 02:56	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 13:27	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 13:27	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 13:27	TPH 8015M	
Surrogate: 1-Chlorooctane	125 %		70-130		P1E2807	05/28/21 10:20	05/29/21 13:27	TPH 8015M	
Surrogate: o-Terphenyl	148 %		70-130		P1E2807	05/28/21 10:20	05/29/21 13:27	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 13:27	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-67 @ 1'
1E27007-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:31	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:31	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:31	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:31	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %		80-120		P1E2816	05/28/21 13:48	05/31/21 05:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %		80-120		P1E2816	05/28/21 13:48	05/31/21 05:31	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	47.5	1.06	mg/kg dry	1	P1E2820	05/28/21 16:49	06/01/21 03:15	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 13:50	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 13:50	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 13:50	TPH 8015M	
Surrogate: 1-Chlorooctane	126 %		70-130		P1E2807	05/28/21 10:20	05/29/21 13:50	TPH 8015M	
Surrogate: o-Terphenyl	149 %		70-130		P1E2807	05/28/21 10:20	05/29/21 13:50	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 13:50	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-68 @ 0.5'
1E27007-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:51	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:51	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:51	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:51	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 05:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	99.8 %		80-120		P1E2816	05/28/21 13:48	05/31/21 05:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.2 %		80-120		P1E2816	05/28/21 13:48	05/31/21 05:51	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6460	26.3	mg/kg dry	25	P1E2820	05/28/21 16:49	06/01/21 03:35	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 14:58	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 14:58	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 14:58	TPH 8015M	
Surrogate: 1-Chlorooctane	119 %		70-130		P1E2807	05/28/21 10:20	05/29/21 14:58	TPH 8015M	
Surrogate: o-Terphenyl	140 %		70-130		P1E2807	05/28/21 10:20	05/29/21 14:58	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 14:58	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-68 @ 1'
1E27007-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 06:12	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 06:12	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 06:12	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 06:12	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1E2816	05/28/21 13:48	05/31/21 06:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P1E2816	05/28/21 13:48	05/31/21 06:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	109 %		80-120		P1E2816	05/28/21 13:48	05/31/21 06:12	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3980	10.9	mg/kg dry	10	P1E2820	05/28/21 16:49	06/01/21 03:54	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 15:20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 15:20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 15:20	TPH 8015M	
Surrogate: 1-Chlorooctane	122 %		70-130		P1E2807	05/28/21 10:20	05/29/21 15:20	TPH 8015M	
Surrogate: o-Terphenyl	143 %		70-130		P1E2807	05/28/21 10:20	05/29/21 15:20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 15:20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-69 @ 0.5'
1E27007-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00127	mg/kg dry	1	P1E2817	05/28/21 13:50	05/31/21 08:55	EPA 8021B	
Toluene	ND	0.00127	mg/kg dry	1	P1E2817	05/28/21 13:50	05/31/21 08:55	EPA 8021B	
Ethylbenzene	ND	0.00127	mg/kg dry	1	P1E2817	05/28/21 13:50	05/31/21 08:55	EPA 8021B	
Xylene (p/m)	ND	0.00253	mg/kg dry	1	P1E2817	05/28/21 13:50	05/31/21 08:55	EPA 8021B	
Xylene (o)	ND	0.00127	mg/kg dry	1	P1E2817	05/28/21 13:50	05/31/21 08:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P1E2817	05/28/21 13:50	05/31/21 08:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	98.8 %		80-120		P1E2817	05/28/21 13:50	05/31/21 08:55	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6470	31.6	mg/kg dry	25	P1E2821	05/28/21 16:50	05/29/21 12:28	EPA 300.0	
% Moisture	21.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	31.6	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 15:43	TPH 8015M	
>C12-C28	ND	31.6	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 15:43	TPH 8015M	
>C28-C35	ND	31.6	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 15:43	TPH 8015M	
Surrogate: 1-Chlorooctane	124 %		70-130		P1E2807	05/28/21 10:20	05/29/21 15:43	TPH 8015M	
Surrogate: o-Terphenyl	145 %		70-130		P1E2807	05/28/21 10:20	05/29/21 15:43	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	31.6	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 15:43	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

S-69 @ 1'
1E27007-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1E2817	05/28/21 13:50	05/31/21 09:16	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1E2817	05/28/21 13:50	05/31/21 09:16	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1E2817	05/28/21 13:50	05/31/21 09:16	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1E2817	05/28/21 13:50	05/31/21 09:16	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1E2817	05/28/21 13:50	05/31/21 09:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %		80-120		P1E2817	05/28/21 13:50	05/31/21 09:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %		80-120		P1E2817	05/28/21 13:50	05/31/21 09:16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2260	10.8	mg/kg dry	10	P1E2821	05/28/21 16:50	05/29/21 13:27	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F0101	06/01/21 09:52	06/01/21 09:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 16:05	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 16:05	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1E2807	05/28/21 10:20	05/29/21 16:05	TPH 8015M	
Surrogate: 1-Chlorooctane	122 %		70-130		P1E2807	05/28/21 10:20	05/29/21 16:05	TPH 8015M	
Surrogate: o-Terphenyl	142 %		70-130		P1E2807	05/28/21 10:20	05/29/21 16:05	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/28/21 10:20	05/29/21 16:05	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2802 - * DEFAULT PREP *****

Blank (P1E2802-BLK1)

Prepared & Analyzed: 05/28/21

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.5	80-120			

LCS (P1E2802-BS1)

Prepared & Analyzed: 05/28/21

Benzene	0.0942	0.00100	mg/kg wet	0.100		94.2	70-130			
Toluene	0.0971	0.00100	"	0.100		97.1	70-130			
Ethylbenzene	0.0916	0.00100	"	0.100		91.6	70-130			
Xylene (p/m)	0.200	0.00200	"	0.200		100	70-130			
Xylene (o)	0.0904	0.00100	"	0.100		90.4	70-130			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.6	80-120			

LCS Dup (P1E2802-BSD1)

Prepared & Analyzed: 05/28/21

Benzene	0.0937	0.00100	mg/kg wet	0.100		93.7	70-130	0.532	20	
Toluene	0.0948	0.00100	"	0.100		94.8	70-130	2.32	20	
Ethylbenzene	0.0904	0.00100	"	0.100		90.4	70-130	1.30	20	
Xylene (p/m)	0.197	0.00200	"	0.200		98.4	70-130	1.73	20	
Xylene (o)	0.0896	0.00100	"	0.100		89.6	70-130	0.889	20	
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		98.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	80-120			

Calibration Blank (P1E2802-CCB1)

Prepared & Analyzed: 05/28/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2802 - * DEFAULT PREP *****

Calibration Blank (P1E2802-CCB2)

Prepared & Analyzed: 05/28/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120			

Calibration Check (P1E2802-CCV1)

Prepared & Analyzed: 05/28/21

Benzene	0.0986	0.00100	mg/kg wet	0.100		98.6	80-120			
Toluene	0.0994	0.00100	"	0.100		99.4	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.0963	0.00100	"	0.100		96.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.1	75-125			

Calibration Check (P1E2802-CCV2)

Prepared & Analyzed: 05/28/21

Benzene	0.0890	0.00100	mg/kg wet	0.100		89.0	80-120			
Toluene	0.0894	0.00100	"	0.100		89.4	80-120			
Ethylbenzene	0.0887	0.00100	"	0.100		88.7	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.5	80-120			
Xylene (o)	0.0886	0.00100	"	0.100		88.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			

Calibration Check (P1E2802-CCV3)

Prepared & Analyzed: 05/28/21

Benzene	0.0959	0.00100	mg/kg wet	0.100		95.9	80-120			
Toluene	0.0946	0.00100	"	0.100		94.6	80-120			
Ethylbenzene	0.0940	0.00100	"	0.100		94.0	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		97.8	80-120			
Xylene (o)	0.0932	0.00100	"	0.100		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2802 - * DEFAULT PREP *****

Matrix Spike (P1E2802-MS1)		Source: 1E27006-01		Prepared & Analyzed: 05/28/21						
Benzene	0.0569	0.00106	mg/kg dry	0.106	ND	53.4	80-120			QM-07
Toluene	0.0623	0.00106	"	0.106	ND	58.5	80-120			QM-07
Ethylbenzene	0.0645	0.00106	"	0.106	ND	60.6	80-120			QM-07
Xylene (p/m)	0.145	0.00213	"	0.213	ND	68.1	80-120			QM-07
Xylene (o)	0.0726	0.00106	"	0.106	ND	68.3	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.122		"	0.128		95.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.128		102	80-120			

Matrix Spike Dup (P1E2802-MSD1)		Source: 1E27006-01		Prepared & Analyzed: 05/28/21						
Benzene	0.0626	0.00106	mg/kg dry	0.106	ND	58.8	80-120	9.64	20	QM-07
Toluene	0.0676	0.00106	"	0.106	ND	63.5	80-120	8.21	20	QM-07
Ethylbenzene	0.0647	0.00106	"	0.106	ND	60.8	80-120	0.346	20	QM-07
Xylene (p/m)	0.150	0.00213	"	0.213	ND	70.6	80-120	3.65	20	QM-07
Xylene (o)	0.0741	0.00106	"	0.106	ND	69.6	80-120	1.96	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.125		"	0.128		97.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.128		102	80-120			

Batch P1E2803 - * DEFAULT PREP *****

Blank (P1E2803-BLK1)		Prepared: 05/28/21 Analyzed: 05/29/21								
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2803 - * DEFAULT PREP *****

LCS (P1E2803-BS1)

Prepared & Analyzed: 05/28/21

Benzene	0.0996	0.00100	mg/kg wet	0.100		99.6	70-130			
Toluene	0.0999	0.00100	"	0.100		99.9	70-130			
Ethylbenzene	0.0918	0.00100	"	0.100		91.8	70-130			
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130			
Xylene (o)	0.0955	0.00100	"	0.100		95.5	70-130			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	80-120			

LCS Dup (P1E2803-BSD1)

Prepared & Analyzed: 05/28/21

Benzene	0.0990	0.00100	mg/kg wet	0.100		99.0	70-130	0.534	20	
Toluene	0.0988	0.00100	"	0.100		98.8	70-130	1.06	20	
Ethylbenzene	0.0904	0.00100	"	0.100		90.4	70-130	1.56	20	
Xylene (p/m)	0.202	0.00200	"	0.200		101	70-130	0.660	20	
Xylene (o)	0.0944	0.00100	"	0.100		94.4	70-130	1.18	20	
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			

Calibration Blank (P1E2803-CCB1)

Prepared & Analyzed: 05/28/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	80-120			

Calibration Blank (P1E2803-CCB2)

Prepared: 05/28/21 Analyzed: 05/29/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.2	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2803 - * DEFAULT PREP *****

Calibration Check (P1E2803-CCV1)

Prepared & Analyzed: 05/28/21

Benzene	0.0959	0.00100	mg/kg wet	0.100		95.9	80-120			
Toluene	0.0946	0.00100	"	0.100		94.6	80-120			
Ethylbenzene	0.0940	0.00100	"	0.100		94.0	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		97.8	80-120			
Xylene (o)	0.0932	0.00100	"	0.100		93.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	75-125			

Calibration Check (P1E2803-CCV2)

Prepared: 05/28/21 Analyzed: 05/29/21

Benzene	0.0844	0.00100	mg/kg wet	0.100		84.4	80-120			
Toluene	0.0846	0.00100	"	0.100		84.6	80-120			
Ethylbenzene	0.0813	0.00100	"	0.100		81.3	80-120			
Xylene (p/m)	0.166	0.00200	"	0.200		82.9	80-120			
Xylene (o)	0.0812	0.00100	"	0.100		81.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			

Calibration Check (P1E2803-CCV3)

Prepared: 05/28/21 Analyzed: 05/29/21

Benzene	0.0968	0.00100	mg/kg wet	0.100		96.8	80-120			
Toluene	0.0949	0.00100	"	0.100		94.9	80-120			
Ethylbenzene	0.0930	0.00100	"	0.100		93.0	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		97.1	80-120			
Xylene (o)	0.0935	0.00100	"	0.100		93.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		108	75-125			

Matrix Spike (P1E2803-MS1)

Source: 1E27006-21

Prepared: 05/28/21 Analyzed: 05/29/21

Benzene	0.0464	0.00104	mg/kg dry	0.104	ND	44.5	80-120			QM-07
Toluene	0.0541	0.00104	"	0.104	ND	52.0	80-120			QM-07
Ethylbenzene	0.0598	0.00104	"	0.104	ND	57.4	80-120			QM-07
Xylene (p/m)	0.101	0.00208	"	0.208	ND	48.5	80-120			QM-07
Xylene (o)	0.0620	0.00104	"	0.104	ND	59.5	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.128		"	0.125		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.125		104	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2803 - * DEFAULT PREP *****

Matrix Spike Dup (P1E2803-MSD1)		Source: 1E27006-21		Prepared: 05/28/21		Analyzed: 05/29/21				
Benzene	0.0604	0.00104	mg/kg dry	0.104	ND	57.9	80-120	26.2	20	QM-07
Toluene	0.0646	0.00104	"	0.104	ND	62.0	80-120	17.7	20	QM-07
Ethylbenzene	0.0618	0.00104	"	0.104	ND	59.3	80-120	3.19	20	QM-07
Xylene (p/m)	0.116	0.00208	"	0.208	ND	55.5	80-120	13.5	20	QM-07
Xylene (o)	0.0660	0.00104	"	0.104	ND	63.3	80-120	6.15	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.127		"	0.125		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.125		103	80-120			

Batch P1E2804 - * DEFAULT PREP *****

Blank (P1E2804-BLK1)				Prepared: 05/28/21		Analyzed: 05/29/21				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.8	80-120			

LCS (P1E2804-BS1)				Prepared: 05/28/21		Analyzed: 05/29/21				
Benzene	0.0959	0.00100	mg/kg wet	0.100		95.9	70-130			
Toluene	0.0959	0.00100	"	0.100		95.9	70-130			
Ethylbenzene	0.0854	0.00100	"	0.100		85.4	70-130			
Xylene (p/m)	0.189	0.00200	"	0.200		94.5	70-130			
Xylene (o)	0.0893	0.00100	"	0.100		89.3	70-130			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2804 - * DEFAULT PREP *****

LCS Dup (P1E2804-BSD1)

Prepared: 05/28/21 Analyzed: 05/29/21

Benzene	0.0845	0.00100	mg/kg wet	0.100		84.5	70-130	12.6	20	
Toluene	0.0839	0.00100	"	0.100		83.9	70-130	13.3	20	
Ethylbenzene	0.0810	0.00100	"	0.100		81.0	70-130	5.18	20	
Xylene (p/m)	0.166	0.00200	"	0.200		83.0	70-130	13.0	20	
Xylene (o)	0.0806	0.00100	"	0.100		80.6	70-130	10.2	20	
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			

Calibration Blank (P1E2804-CCB1)

Prepared: 05/28/21 Analyzed: 05/29/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.2	80-120			

Calibration Blank (P1E2804-CCB2)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	80-120			

Calibration Check (P1E2804-CCV1)

Prepared: 05/28/21 Analyzed: 05/29/21

Benzene	0.0968	0.00100	mg/kg wet	0.100		96.8	80-120			
Toluene	0.0949	0.00100	"	0.100		94.9	80-120			
Ethylbenzene	0.0930	0.00100	"	0.100		93.0	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		97.1	80-120			
Xylene (o)	0.0935	0.00100	"	0.100		93.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		108	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
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Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2804 - * DEFAULT PREP *****

Calibration Check (P1E2804-CCV2)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.0909	0.00100	mg/kg wet	0.100		90.9	80-120			
Toluene	0.0909	0.00100	"	0.100		90.9	80-120			
Ethylbenzene	0.0885	0.00100	"	0.100		88.5	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200		90.2	80-120			
Xylene (o)	0.0881	0.00100	"	0.100		88.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			

Calibration Check (P1E2804-CCV3)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.0938	0.00100	mg/kg wet	0.100		93.8	80-120			
Toluene	0.0941	0.00100	"	0.100		94.1	80-120			
Ethylbenzene	0.0927	0.00100	"	0.100		92.7	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.6	80-120			
Xylene (o)	0.0923	0.00100	"	0.100		92.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	75-125			

Matrix Spike (P1E2804-MS1)

Source: 1E27006-41

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.0751	0.00104	mg/kg dry	0.104	ND	72.1	80-120			QM-07
Toluene	0.0732	0.00104	"	0.104	ND	70.3	80-120			QM-07
Ethylbenzene	0.0638	0.00104	"	0.104	ND	61.3	80-120			QM-07
Xylene (p/m)	0.124	0.00208	"	0.208	ND	59.6	80-120			QM-07
Xylene (o)	0.0639	0.00104	"	0.104	ND	61.4	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.130		"	0.125		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.125		102	80-120			

Matrix Spike Dup (P1E2804-MSD1)

Source: 1E27006-41

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.0736	0.00104	mg/kg dry	0.104	ND	70.6	80-120	2.05	20	QM-07
Toluene	0.0721	0.00104	"	0.104	ND	69.2	80-120	1.50	20	QM-07
Ethylbenzene	0.0623	0.00104	"	0.104	ND	59.8	80-120	2.43	20	QM-07
Xylene (p/m)	0.123	0.00208	"	0.208	ND	58.9	80-120	1.17	20	QM-07
Xylene (o)	0.0629	0.00104	"	0.104	ND	60.3	80-120	1.73	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.130		"	0.125		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.125		101	80-120			

Permian Basin Environmental Lab, L.P.

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Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2815 - * DEFAULT PREP *****

Blank (P1E2815-BLK1)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.6	80-120			

LCS (P1E2815-BS1)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.109	0.00100	mg/kg wet	0.100		109	70-130			
Toluene	0.109	0.00100	"	0.100		109	70-130			
Ethylbenzene	0.100	0.00100	"	0.100		100	70-130			
Xylene (p/m)	0.223	0.00200	"	0.200		112	70-130			
Xylene (o)	0.104	0.00100	"	0.100		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	80-120			

LCS Dup (P1E2815-BS1)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130	5.48	20	
Toluene	0.103	0.00100	"	0.100		103	70-130	5.64	20	
Ethylbenzene	0.0945	0.00100	"	0.100		94.5	70-130	5.63	20	
Xylene (p/m)	0.212	0.00200	"	0.200		106	70-130	5.05	20	
Xylene (o)	0.0991	0.00100	"	0.100		99.1	70-130	4.96	20	
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			

Calibration Blank (P1E2815-CCB1)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.9	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2815 - * DEFAULT PREP *****

Calibration Blank (P1E2815-CCB2)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	80-120			

Calibration Check (P1E2815-CCV1)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.0978	0.00100	mg/kg wet	0.100		97.8	80-120			
Toluene	0.0992	0.00100	"	0.100		99.2	80-120			
Ethylbenzene	0.0985	0.00100	"	0.100		98.5	80-120			
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120			
Xylene (o)	0.0975	0.00100	"	0.100		97.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		104	75-125			

Calibration Check (P1E2815-CCV2)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.0880	0.00100	mg/kg wet	0.100		88.0	80-120			
Toluene	0.0883	0.00100	"	0.100		88.3	80-120			
Ethylbenzene	0.0868	0.00100	"	0.100		86.8	80-120			
Xylene (p/m)	0.177	0.00200	"	0.200		88.5	80-120			
Xylene (o)	0.0857	0.00100	"	0.100		85.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			

Calibration Check (P1E2815-CCV3)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.0890	0.00100	mg/kg wet	0.100		89.0	80-120			
Toluene	0.0910	0.00100	"	0.100		91.0	80-120			
Ethylbenzene	0.0881	0.00100	"	0.100		88.1	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200		90.0	80-120			
Xylene (o)	0.0882	0.00100	"	0.100		88.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	75-125			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
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Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2815 - * DEFAULT PREP *****

Matrix Spike (P1E2815-MS1)		Source: 1E27007-01		Prepared: 05/28/21		Analyzed: 05/30/21				
Benzene	0.0740	0.00101	mg/kg dry	0.101	ND	73.3	80-120			QM-07
Toluene	0.0577	0.00101	"	0.101	ND	57.1	80-120			QM-07
Ethylbenzene	0.0528	0.00101	"	0.101	ND	52.2	80-120			QM-07
Xylene (p/m)	0.0968	0.00202	"	0.202	ND	47.9	80-120			QM-07
Xylene (o)	0.0623	0.00101	"	0.101	ND	61.6	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.122		"	0.121		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.121		103	80-120			

Matrix Spike Dup (P1E2815-MSD1)		Source: 1E27007-01		Prepared: 05/28/21		Analyzed: 05/30/21				
Benzene	0.0814	0.00101	mg/kg dry	0.101	ND	80.6	80-120	9.49	20	
Toluene	0.0688	0.00101	"	0.101	ND	68.1	80-120	17.6	20	QM-07
Ethylbenzene	0.0633	0.00101	"	0.101	ND	62.7	80-120	18.2	20	QM-07
Xylene (p/m)	0.122	0.00202	"	0.202	ND	60.4	80-120	23.0	20	QM-07
Xylene (o)	0.0685	0.00101	"	0.101	ND	67.8	80-120	9.58	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.126		"	0.121		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.121		105	80-120			

Batch P1E2816 - * DEFAULT PREP *****

Blank (P1E2816-BLK1)				Prepared: 05/28/21		Analyzed: 05/30/21				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.7	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2816 - * DEFAULT PREP *****

LCS (P1E2816-BS1)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130			
Toluene	0.102	0.00100	"	0.100		102	70-130			
Ethylbenzene	0.0929	0.00100	"	0.100		92.9	70-130			
Xylene (p/m)	0.209	0.00200	"	0.200		104	70-130			
Xylene (o)	0.0967	0.00100	"	0.100		96.7	70-130			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120			

LCS Dup (P1E2816-BSD1)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.0994	0.00100	mg/kg wet	0.100		99.4	70-130	2.36	20	
Toluene	0.103	0.00100	"	0.100		103	70-130	0.469	20	
Ethylbenzene	0.0912	0.00100	"	0.100		91.2	70-130	1.84	20	
Xylene (p/m)	0.202	0.00200	"	0.200		101	70-130	3.32	20	
Xylene (o)	0.0948	0.00100	"	0.100		94.8	70-130	2.02	20	
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		106	80-120			

Calibration Blank (P1E2816-CCB1)

Prepared: 05/28/21 Analyzed: 05/30/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			

Calibration Blank (P1E2816-CCB2)

Prepared: 05/28/21 Analyzed: 05/31/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2816 - * DEFAULT PREP *****

Calibration Check (P1E2816-CCV1)				Prepared: 05/28/21		Analyzed: 05/30/21	
Benzene	0.0890	0.00100	mg/kg wet	0.100		89.0	80-120
Toluene	0.0910	0.00100	"	0.100		91.0	80-120
Ethylbenzene	0.0881	0.00100	"	0.100		88.1	80-120
Xylene (p/m)	0.180	0.00200	"	0.200		90.0	80-120
Xylene (o)	0.0882	0.00100	"	0.100		88.2	80-120
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	75-125
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125

Calibration Check (P1E2816-CCV2)				Prepared: 05/28/21		Analyzed: 05/31/21	
Benzene	0.0874	0.00100	mg/kg wet	0.100		87.4	80-120
Toluene	0.0885	0.00100	"	0.100		88.5	80-120
Ethylbenzene	0.0858	0.00100	"	0.100		85.8	80-120
Xylene (p/m)	0.173	0.00200	"	0.200		86.4	80-120
Xylene (o)	0.0861	0.00100	"	0.100		86.1	80-120
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125

Calibration Check (P1E2816-CCV3)				Prepared: 05/28/21		Analyzed: 05/31/21	
Benzene	0.0973	0.00100	mg/kg wet	0.100		97.3	80-120
Toluene	0.0976	0.00100	"	0.100		97.6	80-120
Ethylbenzene	0.0932	0.00100	"	0.100		93.2	80-120
Xylene (p/m)	0.191	0.00200	"	0.200		95.7	80-120
Xylene (o)	0.0936	0.00100	"	0.100		93.6	80-120
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125

Matrix Spike (P1E2816-MS1)				Source: 1E27007-21		Prepared: 05/28/21		Analyzed: 05/31/21	
Benzene	0.0325	0.00109	mg/kg dry	0.109	ND	29.9	80-120		QM-07
Toluene	0.0408	0.00109	"	0.109	ND	37.6	80-120		QM-07
Ethylbenzene	0.0548	0.00109	"	0.109	ND	50.5	80-120		QM-07
Xylene (p/m)	0.114	0.00217	"	0.217	ND	52.6	80-120		QM-07
Xylene (o)	0.0570	0.00109	"	0.109	ND	52.4	80-120		QM-07
Surrogate: 4-Bromofluorobenzene	0.130		"	0.130		99.9	80-120		
Surrogate: 1,4-Difluorobenzene	0.133		"	0.130		102	80-120		

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2816 - * DEFAULT PREP *****

Matrix Spike Dup (P1E2816-MSD1)		Source: 1E27007-21		Prepared: 05/28/21		Analyzed: 05/31/21				
Benzene	0.0305	0.00109	mg/kg dry	0.109	ND	28.1	80-120	6.18	20	QM-07
Toluene	0.0399	0.00109	"	0.109	ND	36.7	80-120	2.21	20	QM-07
Ethylbenzene	0.0546	0.00109	"	0.109	ND	50.2	80-120	0.477	20	QM-07
Xylene (p/m)	0.128	0.00217	"	0.217	ND	58.9	80-120	11.4	20	QM-07
Xylene (o)	0.0656	0.00109	"	0.109	ND	60.4	80-120	14.1	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.140		"	0.130		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.143		"	0.130		109	80-120			

Batch P1E2817 - * DEFAULT PREP *****

Blank (P1E2817-BLK1)				Prepared: 05/28/21		Analyzed: 05/31/21				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			

LCS (P1E2817-BS1)				Prepared: 05/28/21		Analyzed: 05/31/21				
Benzene	0.0898	0.00100	mg/kg wet	0.100		89.8	70-130			
Toluene	0.0896	0.00100	"	0.100		89.6	70-130			
Ethylbenzene	0.0823	0.00100	"	0.100		82.3	70-130			
Xylene (p/m)	0.172	0.00200	"	0.200		86.1	70-130			
Xylene (o)	0.0843	0.00100	"	0.100		84.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120			

Permian Basin Environmental Lab, L.P.

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Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2817 - * DEFAULT PREP *****

LCS Dup (P1E2817-BSD1)

Prepared: 05/28/21 Analyzed: 05/31/21

Benzene	0.0846	0.00100	mg/kg wet	0.100		84.6	70-130	6.04	20	
Toluene	0.0843	0.00100	"	0.100		84.3	70-130	6.12	20	
Ethylbenzene	0.0808	0.00100	"	0.100		80.8	70-130	1.85	20	
Xylene (p/m)	0.161	0.00200	"	0.200		80.6	70-130	6.59	20	
Xylene (o)	0.0810	0.00100	"	0.100		81.0	70-130	4.09	20	
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	80-120			

Calibration Blank (P1E2817-CCB1)

Prepared: 05/28/21 Analyzed: 05/31/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.9	80-120			

Calibration Blank (P1E2817-CCB2)

Prepared: 05/28/21 Analyzed: 05/31/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			

Calibration Blank (P1E2817-CCB3)

Prepared: 05/28/21 Analyzed: 05/31/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120			

Permian Basin Environmental Lab, L.P.

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Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2817 - * DEFAULT PREP *****

Calibration Check (P1E2817-CCV1)

Prepared: 05/28/21 Analyzed: 05/31/21

Benzene	0.0973	0.00100	mg/kg wet	0.100		97.3	80-120			
Toluene	0.0976	0.00100	"	0.100		97.6	80-120			
Ethylbenzene	0.0932	0.00100	"	0.100		93.2	80-120			
Xylene (p/m)	0.191	0.00200	"	0.200		95.7	80-120			
Xylene (o)	0.0936	0.00100	"	0.100		93.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			

Calibration Check (P1E2817-CCV2)

Prepared: 05/28/21 Analyzed: 05/31/21

Benzene	0.0957	0.00100	mg/kg wet	0.100		95.7	80-120			
Toluene	0.0954	0.00100	"	0.100		95.4	80-120			
Ethylbenzene	0.0921	0.00100	"	0.100		92.1	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.4	80-120			
Xylene (o)	0.0926	0.00100	"	0.100		92.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125			

Calibration Check (P1E2817-CCV3)

Prepared: 05/28/21 Analyzed: 05/31/21

Benzene	0.0950	0.00100	mg/kg wet	0.100		95.0	80-120			
Toluene	0.0942	0.00100	"	0.100		94.2	80-120			
Ethylbenzene	0.0911	0.00100	"	0.100		91.1	80-120			
Xylene (p/m)	0.186	0.00200	"	0.200		92.8	80-120			
Xylene (o)	0.0908	0.00100	"	0.100		90.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125			

Matrix Spike (P1E2817-MS1)

Source: 1E27007-41

Prepared: 05/28/21 Analyzed: 05/31/21

Benzene	0.0802	0.00127	mg/kg dry	0.127	ND	63.3	80-120			QM-07
Toluene	0.0817	0.00127	"	0.127	ND	64.5	80-120			QM-07
Ethylbenzene	0.0756	0.00127	"	0.127	ND	59.7	80-120			QM-07
Xylene (p/m)	0.156	0.00253	"	0.253	ND	61.7	80-120			QM-07
Xylene (o)	0.0781	0.00127	"	0.127	ND	61.7	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.156		"	0.152		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.153		"	0.152		101	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2817 - * DEFAULT PREP *****

Matrix Spike Dup (P1E2817-MSD1)		Source: 1E27007-41		Prepared: 05/28/21		Analyzed: 05/31/21				
Benzene	0.0823	0.00127	mg/kg dry	0.127	ND	65.0	80-120	2.57	20	QM-07
Toluene	0.0817	0.00127	"	0.127	ND	64.5	80-120	0.0155	20	QM-07
Ethylbenzene	0.0747	0.00127	"	0.127	ND	59.0	80-120	1.23	20	QM-07
Xylene (p/m)	0.147	0.00253	"	0.253	ND	58.0	80-120	6.15	20	QM-07
Xylene (o)	0.0777	0.00127	"	0.127	ND	61.4	80-120	0.406	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.158		"	0.152		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.155		"	0.152		102	80-120			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2806 - * DEFAULT PREP *****

Blank (P1E2806-BLK1)

Prepared & Analyzed: 05/28/21

Chloride	ND	1.00	mg/kg wet
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LCS (P1E2806-BS1)

Prepared & Analyzed: 05/28/21

Chloride	378	1.00	mg/kg wet	400	94.6	90-110
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LCS Dup (P1E2806-BSD1)

Prepared & Analyzed: 05/28/21

Chloride	379	1.00	mg/kg wet	400	94.7	90-110	0.156	20
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Calibration Check (P1E2806-CCV1)

Prepared & Analyzed: 05/28/21

Chloride	18.9		mg/kg	20.0	94.6	90-110
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Calibration Check (P1E2806-CCV2)

Prepared & Analyzed: 05/28/21

Chloride	18.9		mg/kg	20.0	94.7	90-110
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Matrix Spike (P1E2806-MS1)

Source: 1E27006-01

Prepared & Analyzed: 05/28/21

Chloride	4570	10.6	mg/kg dry	1060	3460	104	80-120
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Matrix Spike (P1E2806-MS2)

Source: 1E27006-11

Prepared & Analyzed: 05/28/21

Chloride	4040	10.9	mg/kg dry	1090	2910	104	80-120
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Matrix Spike Dup (P1E2806-MSD1)

Source: 1E27006-01

Prepared & Analyzed: 05/28/21

Chloride	4570	10.6	mg/kg dry	1060	3460	104	80-120	0.156	20
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Matrix Spike Dup (P1E2806-MSD2)

Source: 1E27006-11

Prepared & Analyzed: 05/28/21

Chloride	4030	10.9	mg/kg dry	1090	2910	103	80-120	0.183	20
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Batch P1E2812 - * DEFAULT PREP *****

Blank (P1E2812-BLK1)

Prepared & Analyzed: 05/28/21

Chloride	ND	1.00	mg/kg wet
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1E2812 - *** DEFAULT PREP ***										
LCS (P1E2812-BS1)				Prepared & Analyzed: 05/28/21						
Chloride	379	1.00	mg/kg wet	400		94.7	90-110			
LCS Dup (P1E2812-BSD1)				Prepared & Analyzed: 05/28/21						
Chloride	375	1.00	mg/kg wet	400		93.8	90-110	0.966	20	
Calibration Check (P1E2812-CCV1)				Prepared & Analyzed: 05/28/21						
Chloride	18.7		mg/kg	20.0		93.5	90-110			
Calibration Check (P1E2812-CCV2)				Prepared: 05/28/21 Analyzed: 05/30/21						
Chloride	19.1		mg/kg	20.0		95.6	90-110			
Matrix Spike (P1E2812-MS1)				Source: 1E27006-21		Prepared & Analyzed: 05/28/21				
Chloride	8470	26.0	mg/kg dry	2600	6350	81.5	80-120			
Matrix Spike (P1E2812-MS2)				Source: 1E27006-31		Prepared: 05/28/21 Analyzed: 05/30/21				
Chloride	7860	26.0	mg/kg dry	2600	5210	102	80-120			
Matrix Spike Dup (P1E2812-MSD1)				Source: 1E27006-21		Prepared & Analyzed: 05/28/21				
Chloride	8630	26.0	mg/kg dry	2600	6350	87.6	80-120	1.87	20	
Matrix Spike Dup (P1E2812-MSD2)				Source: 1E27006-31		Prepared: 05/28/21 Analyzed: 05/30/21				
Chloride	7690	26.0	mg/kg dry	2600	5210	95.3	80-120	2.15	20	
Batch P1E2818 - *** DEFAULT PREP ***										
Blank (P1E2818-BLK1)				Prepared: 05/28/21 Analyzed: 05/30/21						
Chloride	ND	1.00	mg/kg wet							

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
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Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2818 - * DEFAULT PREP *****

LCS (P1E2818-BS1)				Prepared: 05/28/21 Analyzed: 05/30/21						
Chloride	401	1.00	mg/kg wet	400		100	90-110			

LCS Dup (P1E2818-BSD1)				Prepared: 05/28/21 Analyzed: 05/30/21						
Chloride	402	1.00	mg/kg wet	400		100	90-110	0.309	20	

Matrix Spike (P1E2818-MS1)				Source: 1E27006-41		Prepared: 05/28/21 Analyzed: 05/30/21				
Chloride	504	1.04	mg/kg dry		12.0		80-120			

Matrix Spike Dup (P1E2818-MSD1)				Source: 1E27006-41		Prepared: 05/28/21 Analyzed: 05/30/21				
Chloride	496	1.04	mg/kg dry		12.0		80-120	1.61	20	

Batch P1E2819 - * DEFAULT PREP *****

Blank (P1E2819-BLK1)				Prepared: 05/28/21 Analyzed: 05/31/21						
Chloride	ND	1.00	mg/kg wet							

LCS (P1E2819-BS1)				Prepared: 05/28/21 Analyzed: 05/31/21						
Chloride	404	1.00	mg/kg wet	400		101	90-110			

LCS Dup (P1E2819-BSD1)				Prepared: 05/28/21 Analyzed: 05/31/21						
Chloride	405	1.00	mg/kg wet	400		101	90-110	0.247	20	

Matrix Spike (P1E2819-MS1)				Source: 1E27007-01		Prepared: 05/28/21 Analyzed: 05/31/21				
Chloride	493	1.01	mg/kg dry	505	52.9	87.1	80-120			

Matrix Spike Dup (P1E2819-MSD1)				Source: 1E27007-01		Prepared: 05/28/21 Analyzed: 05/31/21				
Chloride	493	1.01	mg/kg dry	505	52.9	87.1	80-120	0.0533	20	

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
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Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2820 - * DEFAULT PREP *****

Blank (P1E2820-BLK1)				Prepared: 05/28/21 Analyzed: 05/31/21						
Chloride	ND	1.00	mg/kg wet							
LCS (P1E2820-BS1)				Prepared: 05/28/21 Analyzed: 05/31/21						
Chloride	408	1.00	mg/kg wet	400		102	90-110			
LCS Dup (P1E2820-BSD1)				Prepared: 05/28/21 Analyzed: 05/31/21						
Chloride	409	1.00	mg/kg wet	400		102	90-110	0.167	20	
Calibration Check (P1E2820-CCV1)				Prepared: 05/28/21 Analyzed: 05/31/21						
Chloride	18.8		mg/kg	20.0		93.9	90-110			
Calibration Check (P1E2820-CCV2)				Prepared: 05/28/21 Analyzed: 05/31/21						
Chloride	18.9		mg/kg	20.0		94.3	90-110			
Calibration Check (P1E2820-CCV3)				Prepared: 05/28/21 Analyzed: 06/01/21						
Chloride	18.9		mg/kg	20.0		94.6	90-110			
Matrix Spike (P1E2820-MS1)				Source: 1E27007-21		Prepared: 05/28/21 Analyzed: 05/31/21				
Chloride	13300	27.2	mg/kg dry	2720	8810	164	80-120			QM-05
Matrix Spike Dup (P1E2820-MSD1)				Source: 1E27007-21		Prepared: 05/28/21 Analyzed: 05/31/21				
Chloride	13400	27.2	mg/kg dry	2720	8810	167	80-120	0.801	20	QM-05

Batch P1E2821 - * DEFAULT PREP *****

Blank (P1E2821-BLK1)				Prepared: 05/28/21 Analyzed: 05/29/21						
Chloride	ND	1.00	mg/kg wet							

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Larson & Associates, Inc.
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Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2821 - * DEFAULT PREP *****

LCS (P1E2821-BS1)				Prepared: 05/28/21 Analyzed: 05/29/21						
Chloride	399	1.00	mg/kg wet	400		99.7	90-110			
LCS Dup (P1E2821-BSD1)				Prepared: 05/28/21 Analyzed: 05/29/21						
Chloride	399	1.00	mg/kg wet	400		99.8	90-110	0.128	20	
Matrix Spike (P1E2821-MS1)				Source: 1E21010-08		Prepared: 05/28/21 Analyzed: 05/29/21				
Chloride	7970	26.3	mg/kg dry	2630	498	284	80-120			
Matrix Spike Dup (P1E2821-MSD1)				Source: 1E21010-08		Prepared: 05/28/21 Analyzed: 05/29/21				
Chloride	7980	26.3	mg/kg dry	2630	498	284	80-120	0.175	20	

Batch P1F0101 - * DEFAULT PREP *****

Blank (P1F0101-BLK1)				Prepared & Analyzed: 06/01/21						
% Moisture	ND	0.1	%							
Blank (P1F0101-BLK2)				Prepared & Analyzed: 06/01/21						
% Moisture	ND	0.1	%							
Duplicate (P1F0101-DUP1)				Source: 1E27006-10		Prepared & Analyzed: 06/01/21				
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P1F0101-DUP2)				Source: 1E27006-20		Prepared & Analyzed: 06/01/21				
% Moisture	12.0	0.1	%		11.0			8.70	20	
Duplicate (P1F0101-DUP3)				Source: 1E27006-35		Prepared & Analyzed: 06/01/21				
% Moisture	5.0	0.1	%		6.0			18.2	20	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1F0101 - * DEFAULT PREP *****

Duplicate (P1F0101-DUP4)	Source: 1E27006-45		Prepared & Analyzed: 06/01/21							
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P1F0101-DUP5)	Source: 1E27006-60		Prepared & Analyzed: 06/01/21							
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P1F0101-DUP6)	Source: 1E27007-10		Prepared & Analyzed: 06/01/21							
% Moisture	1.0	0.1	%		ND			200	20	
Duplicate (P1F0101-DUP7)	Source: 1E27007-25		Prepared & Analyzed: 06/01/21							
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P1F0101-DUP8)	Source: 1E27007-35		Prepared & Analyzed: 06/01/21							
% Moisture	7.0	0.1	%		8.0			13.3	20	

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2801 - TX 1005

Blank (P1E2801-BLK1)

Prepared & Analyzed: 05/28/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	61.8		"	50.0		124	70-130			

LCS (P1E2801-BS1)

Prepared & Analyzed: 05/28/21

C6-C12	1140	25.0	mg/kg wet	1000		114	75-125			
>C12-C28	1090	25.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	64.0		"	50.0		128	70-130			

LCS Dup (P1E2801-BSD1)

Prepared & Analyzed: 05/28/21

C6-C12	1150	25.0	mg/kg wet	1000		115	75-125	0.986	20	
>C12-C28	1010	25.0	"	1000		101	75-125	7.97	20	
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	62.3		"	50.0		125	70-130			

Calibration Check (P1E2801-CCV1)

Prepared & Analyzed: 05/28/21

C6-C12	518	25.0	mg/kg wet	500		104	85-115			
>C12-C28	525	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	65.2		"	50.0		130	70-130			

Calibration Check (P1E2801-CCV2)

Prepared & Analyzed: 05/28/21

C6-C12	477	25.0	mg/kg wet	500		95.5	85-115			
>C12-C28	495	25.0	"	500		99.0	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	58.4		"	50.0		117	70-130			

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2801 - TX 1005

Matrix Spike (P1E2801-MS1)

Source: 1E27006-20

Prepared & Analyzed: 05/28/21

C6-C12	1360	28.1	mg/kg dry	1120	12.0	120	75-125			
>C12-C28	1330	28.1	"	1120	43.2	115	75-125			
Surrogate: 1-Chlorooctane	132		"	112		117	70-130			
Surrogate: o-Terphenyl	75.5		"	56.2		134	70-130			S-GC

Matrix Spike Dup (P1E2801-MSD1)

Source: 1E27006-20

Prepared & Analyzed: 05/28/21

C6-C12	1340	28.1	mg/kg dry	1120	12.0	118	75-125	2.09	20	
>C12-C28	1300	28.1	"	1120	43.2	112	75-125	2.68	20	
Surrogate: 1-Chlorooctane	129		"	112		115	70-130			
Surrogate: o-Terphenyl	73.9		"	56.2		131	70-130			S-GC

Batch P1E2805 - TX 1005

Blank (P1E2805-BLK1)

Prepared & Analyzed: 05/28/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	92.2		"	100		92.2	70-130			
Surrogate: o-Terphenyl	48.1		"	50.0		96.3	70-130			

LCS (P1E2805-BS1)

Prepared & Analyzed: 05/28/21

C6-C12	1010	25.0	mg/kg wet	1000		101	75-125			
>C12-C28	884	25.0	"	1000		88.4	75-125			
Surrogate: 1-Chlorooctane	96.0		"	100		96.0	70-130			
Surrogate: o-Terphenyl	53.1		"	50.0		106	70-130			

LCS Dup (P1E2805-BSD1)

Prepared & Analyzed: 05/28/21

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125	1.56	20	
>C12-C28	888	25.0	"	1000		88.8	75-125	0.483	20	
Surrogate: 1-Chlorooctane	98.1		"	100		98.1	70-130			
Surrogate: o-Terphenyl	50.2		"	50.0		100	70-130			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2805 - TX 1005

Calibration Check (P1E2805-CCV1)

Prepared & Analyzed: 05/28/21

C6-C12	468	25.0	mg/kg wet	500		93.7	85-115			
>C12-C28	441	25.0	"	500		88.2	85-115			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	51.1		"	50.0		102	70-130			

Calibration Check (P1E2805-CCV2)

Prepared & Analyzed: 05/28/21

C6-C12	475	25.0	mg/kg wet	500		94.9	85-115			
>C12-C28	446	25.0	"	500		89.2	85-115			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	51.4		"	50.0		103	70-130			

Matrix Spike (P1E2805-MS1)

Source: 1E27006-24

Prepared: 05/28/21 Analyzed: 05/29/21

C6-C12	1100	26.0	mg/kg dry	1040	ND	105	75-125			
>C12-C28	943	26.0	"	1040	11.3	89.4	75-125			
Surrogate: 1-Chlorooctane	112		"	104		107	70-130			
Surrogate: o-Terphenyl	67.4		"	52.1		129	70-130			

Matrix Spike Dup (P1E2805-MSD1)

Source: 1E27006-24

Prepared: 05/28/21 Analyzed: 05/29/21

C6-C12	1090	26.0	mg/kg dry	1040	ND	104	75-125	0.966	20	
>C12-C28	939	26.0	"	1040	11.3	89.1	75-125	0.389	20	
Surrogate: 1-Chlorooctane	111		"	104		107	70-130			
Surrogate: o-Terphenyl	59.6		"	52.1		114	70-130			

Batch P1E2807 - TX 1005

Blank (P1E2807-BLK1)

Prepared & Analyzed: 05/28/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	62.6		"	50.0		125	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2807 - TX 1005

LCS (P1E2807-BS1)

Prepared & Analyzed: 05/28/21

C6-C12	1230	25.0	mg/kg wet	1000		123	75-125			
>C12-C28	1160	25.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	64.3		"	50.0		129	70-130			

LCS Dup (P1E2807-BSD1)

Prepared & Analyzed: 05/28/21

C6-C12	1220	25.0	mg/kg wet	1000		122	75-125	0.825	20	
>C12-C28	1160	25.0	"	1000		116	75-125	0.0940	20	
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	65.6		"	50.0		131	70-130			S-GC

Calibration Check (P1E2807-CCV1)

Prepared & Analyzed: 05/28/21

C6-C12	553	25.0	mg/kg wet	500		111	85-115			
>C12-C28	550	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	63.4		"	50.0		127	70-130			

Calibration Check (P1E2807-CCV2)

Prepared: 05/28/21 Analyzed: 05/29/21

C6-C12	521	25.0	mg/kg wet	500		104	85-115			
>C12-C28	548	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	127		"	100		127	70-130			
Surrogate: o-Terphenyl	62.4		"	50.0		125	70-130			

Matrix Spike (P1E2807-MS1)

Source: 1E27007-42

Prepared: 05/28/21 Analyzed: 05/29/21

C6-C12	1110	26.9	mg/kg dry	1080	13.1	102	75-125			
>C12-C28	1050	26.9	"	1080	12.8	96.7	75-125			
Surrogate: 1-Chlorooctane	118		"	108		110	70-130			
Surrogate: o-Terphenyl	68.3		"	53.8		127	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2807 - TX 1005

Matrix Spike Dup (P1E2807-MSD1)	Source: 1E27007-42			Prepared: 05/28/21		Analyzed: 05/29/21				
C6-C12	1100	26.9	mg/kg dry	1080	13.1	101	75-125	0.693	20	
>C12-C28	1050	26.9	"	1080	12.8	96.2	75-125	0.528	20	
Surrogate: 1-Chlorooctane	117		"	108		109	70-130			
Surrogate: o-Terphenyl	69.6		"	53.8		130	70-130			

Batch P1E2808 - TX 1005

Blank (P1E2808-BLK1)				Prepared: 05/28/21		Analyzed: 05/29/21				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	53.5		"	50.0		107	70-130			

LCS (P1E2808-BS1)				Prepared: 05/28/21		Analyzed: 05/29/21				
C6-C12	1120	25.0	mg/kg wet	1000		112	75-125			
>C12-C28	970	25.0	"	1000		97.0	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	59.8		"	50.0		120	70-130			

LCS Dup (P1E2808-BSD1)				Prepared: 05/28/21		Analyzed: 05/29/21				
C6-C12	1130	25.0	mg/kg wet	1000		113	75-125	0.666	20	
>C12-C28	978	25.0	"	1000		97.8	75-125	0.781	20	
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	59.4		"	50.0		119	70-130			

Calibration Check (P1E2808-CCV1)				Prepared: 05/28/21		Analyzed: 05/29/21				
C6-C12	558	25.0	mg/kg wet	500		112	85-115			
>C12-C28	569	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	55.4		"	50.0		111	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2808 - TX 1005

Calibration Check (P1E2808-CCV2)

Prepared: 05/28/21 Analyzed: 05/29/21

C6-C12	549	25.0	mg/kg wet	500		110	85-115			
>C12-C28	569	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	56.5		"	50.0		113	70-130			

Calibration Check (P1E2808-CCV3)

Prepared: 05/28/21 Analyzed: 05/29/21

C6-C12	529	25.0	mg/kg wet	500		106	85-115			
>C12-C28	563	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	57.1		"	50.0		114	70-130			

Matrix Spike (P1E2808-MS1)

Source: 1E27006-48

Prepared: 05/28/21 Analyzed: 05/29/21

C6-C12	1100	26.6	mg/kg dry	1060	ND	103	75-125			
>C12-C28	1010	26.6	"	1060	17.9	93.6	75-125			
Surrogate: 1-Chlorooctane	105		"	106		99.0	70-130			
Surrogate: o-Terphenyl	56.8		"	53.2		107	70-130			

Matrix Spike Dup (P1E2808-MSD1)

Source: 1E27006-48

Prepared: 05/28/21 Analyzed: 05/29/21

C6-C12	1080	26.6	mg/kg dry	1060	ND	101	75-125	1.80	20	
>C12-C28	1020	26.6	"	1060	17.9	93.8	75-125	0.137	20	
Surrogate: 1-Chlorooctane	127		"	106		119	70-130			
Surrogate: o-Terphenyl	58.3		"	53.2		110	70-130			

Batch P1E2813 - TX 1005

Blank (P1E2813-BLK1)

Prepared: 05/28/21 Analyzed: 05/29/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	65.2		"	50.0		130	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2813 - TX 1005

LCS (P1E2813-BS1)

Prepared: 05/28/21 Analyzed: 05/29/21

C6-C12	1210	25.0	mg/kg wet	1000		121	75-125			
>C12-C28	1160	25.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	65.3		"	50.0		131	70-130			S-GC

LCS Dup (P1E2813-BS1)

Prepared: 05/28/21 Analyzed: 05/29/21

C6-C12	1210	25.0	mg/kg wet	1000		121	75-125	0.378	20	
>C12-C28	1180	25.0	"	1000		118	75-125	1.22	20	
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	64.8		"	50.0		130	70-130			

Calibration Check (P1E2813-CCV1)

Prepared: 05/28/21 Analyzed: 05/29/21

C6-C12	554	25.0	mg/kg wet	500		111	85-115			
>C12-C28	575	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	62.9		"	50.0		126	70-130			

Calibration Check (P1E2813-CCV2)

Prepared: 05/28/21 Analyzed: 05/30/21

C6-C12	572	25.0	mg/kg wet	500		114	85-115			
>C12-C28	559	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	64.1		"	50.0		128	70-130			

Calibration Check (P1E2813-CCV3)

Prepared: 05/28/21 Analyzed: 05/30/21

C6-C12	539	25.0	mg/kg wet	500		108	85-115			
>C12-C28	569	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	60.6		"	50.0		121	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2813 - TX 1005

Matrix Spike (P1E2813-MS1)

Source: 1E27007-10

Prepared: 05/28/21 Analyzed: 05/30/21

C6-C12	1020	25.0	mg/kg dry	1000	ND	102	75-125			
>C12-C28	1040	25.0	"	1000	ND	104	75-125			
Surrogate: 1-Chlorooctane	95.2		"	100		95.2	70-130			
Surrogate: o-Terphenyl	52.0		"	50.0		104	70-130			

Matrix Spike Dup (P1E2813-MSD1)

Source: 1E27007-10

Prepared: 05/28/21 Analyzed: 05/30/21

C6-C12	1010	25.0	mg/kg dry	1000	ND	101	75-125	0.843	20	
>C12-C28	1020	25.0	"	1000	ND	102	75-125	1.96	20	
Surrogate: 1-Chlorooctane	94.8		"	100		94.8	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			

Batch P1E2814 - TX 1005

Blank (P1E2814-BLK1)

Prepared: 05/28/21 Analyzed: 05/30/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	65.4		"	50.0		131	70-130			S-GC

LCS (P1E2814-BS1)

Prepared: 05/28/21 Analyzed: 05/30/21

C6-C12	1220	25.0	mg/kg wet	1000		122	75-125			
>C12-C28	1170	25.0	"	1000		117	75-125			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	65.4		"	50.0		131	70-130			S-GC

LCS Dup (P1E2814-BSD1)

Prepared: 05/28/21 Analyzed: 05/30/21

C6-C12	1200	25.0	mg/kg wet	1000		120	75-125	1.11	20	
>C12-C28	1170	25.0	"	1000		117	75-125	0.486	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	64.6		"	50.0		129	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1E2814 - TX 1005

Calibration Check (P1E2814-CCV1)

Prepared: 05/28/21 Analyzed: 05/30/21

C6-C12	524	25.0	mg/kg wet	500		105	85-115			
>C12-C28	549	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	63.3		"	50.0		127	70-130			

Matrix Spike (P1E2814-MS1)

Source: 1E27007-12

Prepared: 05/28/21 Analyzed: 05/30/21

C6-C12	1150	27.2	mg/kg dry	1090	ND	105	75-125			
>C12-C28	1110	27.2	"	1090	ND	102	75-125			
Surrogate: 1-Chlorooctane	109		"	109		101	70-130			
Surrogate: o-Terphenyl	64.8		"	54.3		119	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

6/1/2021

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Palmio AST
Project Number: 21-0105-02
Project Manager: Mark Larson

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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8800-2546 N^o 1627

Released to Imaging: 7/22/2026 12:05:24 PM

DATE: 5/21/21 PAGE 3 OF 2
PO#: _____ LAB WORK ORDER#: 1627006
PROJECT LOCATION OR NAME: Pa1M/D
LAI PROJECT #: 21-0105-02 COLLECTOR: TJTM/B

CHAIN-OF-CUSTODY

1026

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[illegible]

1624
N₁₀

Page 145 of 148

Released to Imaging: 7/22/2026 12:05:24 PM

Arson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

No 1625

CHAIN-OF-CUSTODY

DATE: 5-27-21 PAGE 5 OF 2PO#: _____ LAB WORK ORDER#: 1E21007PROJECT LOCATION OR NAME: PalmerLAI PROJECT #: 21-0105-02 COLLECTOR: JT + MB

Data Reported to:

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State:

MST

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX ☐ MTBE ☐TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐GASOLINE MOD 8015 ☐DIESEL - MOD 8015 ☐OIL - MOD 8015 ☐VOC 8260 ☐SVOC 8270 ☐8081 PESTICIDES ☐8082 PESTICIDES ☐TCLP - METALS (RCRA) ☐TCLP - PEST ☐TOTAL METALS (RCRA) ☐LEAD - TOTAL ☐ROI ☐TDS ☐TOX ☐PH ☐EXPLOSIVES ☐CHLORIDES ☐ANIONS ☐ALKALINITY ☐CYANIDE ☐OTHER LIST ☐TCLP VOC ☐Sem-VOC ☐FLASHPOINT ☐% MOISTURE ☐D.W. 200.8 ☐HEXAVALENT CHROMIUM ☐PECHLORATE ☐

FIELD NOTES

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
S-48 .5	1	5-26-21	1430	S	1				X	X	X	X
S-49 .5	2		1432									
S-50 .5	3		1433									
S-51 .5	4		1438									
S-52 .5	5		1440									
S-53 .5	6		1442									
D-1 .5	7		1449									
D-2 .5	8		1158									
D-2 1	9		1159									
D-3 .5	10		1206									
D-4 .5	11		1317									
S-54 .5	12	5-27-21	0740									
S-54 1	13		0741									
S-55 .5	14		0742									
S-55 1	15		0743									
TOTAL	15											

RELINQUISHED BY: (Signature)

J. M. M.

DATE/TIME

5/27/21 1449

RECEIVED BY: (Signature)

J. M. M.

TURN AROUND TIME

NORMAL ☐

RELINQUISHED BY: (Signature)

J. M. M.

DATE/TIME

5/27/21 16:01

RECEIVED BY: (Signature)

J. M. M.

1 DAY ☒2 DAY ☐

RELINQUISHED BY: (Signature)

J. M. M.

DATE/TIME

5/27/21 16:01

RECEIVED BY: (Signature)

J. M. M.

OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: 3.7/4.2 THERM#: 128CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED☐ CARRIER BILL # _____☒ HAND DELIVEREDLABORATORY: PO 51

10-1625

CHAIN-OF-CUSTODY

Varson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 3-21-21 PAGE 6 OF 1
PO#: _____ LAB WORK ORDER#: 1E270071
PROJECT LOCATION OR NAME: Pg 1/1/16
PROJECT # 21-0105-02 COLLECTOR: TJF:mB
LAI PROJECT # _____

Page 147 of 148

TRRP report?						S=SOIL	P=PAINT
☐ Yes ☒ No						W=WATER <td>SL=SLUDGE</td>	SL=SLUDGE
						A=AIR	OT=OTHER
TIME ZONE:							
Time zone/State:							
MST							
Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃
5-56 .5	16	5-27-21	0740	5	1	X	X
5-56 1	17	1	0748	1	1	X	X
5-57 .5	18	1	0751	1	1	X	X
5-57 1	19	1	0752	1	1	X	X
5-58 .5	20	1	0756	1	1	X	X
5-58 1	21	1	0757	1	1	X	X
5-59 .5	22	1	0759	1	1	X	X
5-59 1	23	1	0800	1	1	X	X
5-60 .5	24	1	0802	1	1	X	X
5-60 1	25	1	0803	1	1	X	X
5-61 .5	26	1	0806	1	1	X	X
5-61 1	27	1	0807	1	1	X	X
5-62 .5	28	1	0810	1	1	X	X
5-62 1	29	1	0812	1	1	X	X
5-63 .5	30	1	0818	1	1	X	X
TOTAL 15							
RECEIVED BY: (Signature)							
DATE/TIME							
5/27/21 1449							
RECEIVED BY: (Signature)							
DATE/TIME							
5/27/21 16:01							
RECEIVED BY: (Signature)							
DATE/TIME							
5/27/21 1449							
TURN AROUND TIME							
NORMAL ☐							
1 DAY ☒							
2 DAY ☐							
OTHER ☐							
LABORATORY USE ONLY							
RECEIVING TEMP: 37.4 °C							
THERM #: 128							
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED							
CARRIER BILL #							
☒ HAND DELIVERED							
FIELD NOTES							

Harrison & Associates, Inc.

Environmental Consultants

507 N. Marientfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 5-27-21 PAGE 2 OF 2
PO#: _____ LAB WORK ORDER#: 1E21007
PROJECT LOCATION OR NAME: Palmview
LAI PROJECT #: 21-0105-02 COLLECTOR: TJ + MB

TRRP report?
☐ Yes ☒ No

TIME ZONE:
Time zone/State:
MST

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

Field Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

- BTEX MTBE ☐
- TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐
- GASOLINE MOD 8015 ☐
- DIESEL - MOD 8015 ☐
- OIL - MOD 8015 ☐
- VOC 8260 ☐
- SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐
- 8081 PESTICIDES ☐ 8161 HERBICIDES ☐
- 8082 PCBs ☐
- TCLP - METALS (RCRA) ☐ TCLP VOC ☐
- TCLP - PEST ☐ Herb ☐ Semi-VOC ☐
- TOTAL METALS (RCRA) ☐ OTHER LIST ☐
- LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐
- RO ☐ TOX ☐ FLASHPOINT ☐
- TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐
- pH ☐ HEXAVALENT CHROMIUM ☐
- EXPLOSIVES ☐ PECHLORATE ☐
- CHLORIDES ANIONS ALKALINITY ☐

FIELD NOTES

TOTAL 12

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY: PH&C

LABORATORY USE ONLY
RECEIVING TEMP: 37/42 THERM #: 128
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-3810-1
Client Project/Site: Palmio AST

For:

Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in dark ink, reading "Chad A. Bechtold".

Authorized for release by:
7/19/2021 5:55:30 PM
Chad Bechtold, Project Manager
(813)690-3563
chad.bechtold@eurofinset.com

Designee for
Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-3810-1

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Midland

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Job ID: 880-3810-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-3810-1

Receipt

The samples were received on 7/8/2021 9:16 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

Receipt Exceptions

<Analyze chloride to 600 mg/kg per sample location>

S-41 1' (880-3810-1), S-41 3' (880-3810-2), S-41 5' (880-3810-3), S-41 10' (880-3810-4), S-46 1' (880-3810-5), S-46 3' (880-3810-6), S-46 5' (880-3810-7), S-45 1' (880-3810-8), S-45 3' (880-3810-9), S-45 5' (880-3810-10), S-47 1' (880-3810-11), S-47 3' (880-3810-12), S-47 5' (880-3810-13), S-49 1' (880-3810-14), S-49 3' (880-3810-15), S-50 1' (880-3810-16), S-50 3' (880-3810-17), S-50 5' (880-3810-18), S-50 10' (880-3810-19), S-51 1' (880-3810-20), S-51 3' (880-3810-21), S-51 5' (880-3810-22), S-53 1' (880-3810-23), S-53 3' (880-3810-24), S-53 5' (880-3810-25), S-49 5' (880-3810-26), S-52 1' (880-3810-27), S-52 3' (880-3810-28), S-52 5' (880-3810-29), S-39 1' (880-3810-30), S-39 3' (880-3810-31), S-39 5' (880-3810-32), S-37 1' (880-3810-33), S-37 3' (880-3810-34), S-37 5' (880-3810-35), S-43 1' (880-3810-36), S-43 3' (880-3810-37), S-43 5' (880-3810-38), S-30 1' (880-3810-39), S-30 3' (880-3810-40), S-30 5' (880-3810-41), S-29 1' (880-3810-42), S-29 3' (880-3810-43), S-29 5' (880-3810-44), S-28 1' (880-3810-45), S-28 3' (880-3810-46), S-28 5' (880-3810-47), S-31 1' (880-3810-48), S-31 3' (880-3810-49), S-31 5' (880-3810-50), S-32 1' (880-3810-51), S-32 3' (880-3810-52), S-32 5' (880-3810-53), S-33 1' (880-3810-54), S-33 3' (880-3810-55), S-33 5' (880-3810-56), S-34 1' (880-3810-57), S-34 3' (880-3810-58), S-34 5' (880-3810-59), S-40 1' (880-3810-60), S-40 3' (880-3810-61), S-40 5' (880-3810-62), S-54 1' (880-3810-63), S-54 3' (880-3810-64), S-55 1' (880-3810-65), S-55 3' (880-3810-66), S-55 5' (880-3810-67), S-62 1' (880-3810-68), S-62 3' (880-3810-69), S-62 5' (880-3810-70) and S-54 3' (880-3810-71)

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-4955 and analytical batch 880-4962 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-31 1' (880-3810-48). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-54 1' (880-3810-63). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-41 1'

Lab Sample ID: 880-3810-1

Date Collected: 06/29/21 14:27

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 15:42	07/09/21 15:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 15:42	07/09/21 15:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 15:42	07/09/21 15:52	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		07/08/21 15:42	07/09/21 15:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 15:42	07/09/21 15:52	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/08/21 15:42	07/09/21 15:52	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/08/21 15:42	07/09/21 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	07/08/21 15:42	07/09/21 15:52	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/08/21 15:42	07/09/21 15:52	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 12:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 12:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 12:35	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130	07/08/21 11:01	07/09/21 12:35	1
o-Terphenyl (Surr)	102		70 - 130	07/08/21 11:01	07/09/21 12:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		5.03	mg/Kg			07/12/21 10:40	1

Client Sample ID: S-46 1'

Lab Sample ID: 880-3810-5

Date Collected: 06/30/21 07:38

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/08/21 15:42	07/09/21 16:13	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/08/21 15:42	07/09/21 16:13	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/08/21 15:42	07/09/21 16:13	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		07/08/21 15:42	07/09/21 16:13	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/08/21 15:42	07/09/21 16:13	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/08/21 15:42	07/09/21 16:13	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/08/21 15:42	07/09/21 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	07/08/21 15:42	07/09/21 16:13	1
1,4-Difluorobenzene (Surr)	102		70 - 130	07/08/21 15:42	07/09/21 16:13	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		07/08/21 11:01	07/09/21 11:32	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-46 1'

Lab Sample ID: 880-3810-5

Date Collected: 06/30/21 07:38

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/08/21 11:01	07/09/21 11:32	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/08/21 11:01	07/09/21 11:32	1
Total TPH	<49.7	U	49.7	mg/Kg		07/08/21 11:01	07/09/21 11:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			07/08/21 11:01	07/09/21 11:32	1
o-Terphenyl (Surr)	97		70 - 130			07/08/21 11:01	07/09/21 11:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	217		5.04	mg/Kg			07/12/21 11:10	1

Client Sample ID: S-45 1'

Lab Sample ID: 880-3810-8

Date Collected: 06/30/21 08:23

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		07/08/21 09:37	07/08/21 15:26	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		07/08/21 09:37	07/08/21 15:26	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		07/08/21 09:37	07/08/21 15:26	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		07/08/21 09:37	07/08/21 15:26	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		07/08/21 09:37	07/08/21 15:26	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		07/08/21 09:37	07/08/21 15:26	1
Total BTEX	<0.00398	U F1	0.00398	mg/Kg		07/08/21 09:37	07/08/21 15:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			07/08/21 09:37	07/08/21 15:26	1
1,4-Difluorobenzene (Surr)	111		70 - 130			07/08/21 09:37	07/08/21 15:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 12:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 12:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 12:55	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 12:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130			07/08/21 11:01	07/09/21 12:55	1
o-Terphenyl (Surr)	96		70 - 130			07/08/21 11:01	07/09/21 12:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	278		5.05	mg/Kg			07/12/21 11:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-47 1'

Lab Sample ID: 880-3810-11

Date Collected: 06/30/21 08:53

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		07/10/21 15:13	07/10/21 19:51	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		07/10/21 15:13	07/10/21 19:51	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		07/10/21 15:13	07/10/21 19:51	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		07/10/21 15:13	07/10/21 19:51	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		07/10/21 15:13	07/10/21 19:51	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		07/10/21 15:13	07/10/21 19:51	1
Total BTEX	<0.00398	U F1	0.00398	mg/Kg		07/10/21 15:13	07/10/21 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/10/21 15:13	07/10/21 19:51	1
1,4-Difluorobenzene (Surr)	102		70 - 130	07/10/21 15:13	07/10/21 19:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 13:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 13:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 13:16	1
Total TPH	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	07/08/21 11:01	07/09/21 13:16	1
o-Terphenyl (Surr)	92		70 - 130	07/08/21 11:01	07/09/21 13:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		5.00	mg/Kg			07/12/21 12:25	1

Client Sample ID: S-49 1'

Lab Sample ID: 880-3810-14

Date Collected: 06/30/21 09:28

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 20:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 20:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 20:12	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		07/10/21 15:13	07/10/21 20:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 20:12	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/10/21 15:13	07/10/21 20:12	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/10/21 15:13	07/10/21 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/10/21 15:13	07/10/21 20:12	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/10/21 15:13	07/10/21 20:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 13:38	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-49 1'

Lab Sample ID: 880-3810-14

Date Collected: 06/30/21 09:28

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 13:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 13:38	1
Total TPH	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 13:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			07/08/21 11:01	07/09/21 13:38	1
o-Terphenyl (Surr)	99		70 - 130			07/08/21 11:01	07/09/21 13:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	269		5.00	mg/Kg			07/15/21 05:06	1

Client Sample ID: S-50 1'

Lab Sample ID: 880-3810-16

Date Collected: 06/30/21 09:53

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 20:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 20:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 20:32	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		07/10/21 15:13	07/10/21 20:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 20:32	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/10/21 15:13	07/10/21 20:32	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/10/21 15:13	07/10/21 20:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			07/10/21 15:13	07/10/21 20:32	1
1,4-Difluorobenzene (Surr)	104		70 - 130			07/10/21 15:13	07/10/21 20:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		07/08/21 11:01	07/09/21 13:58	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/08/21 11:01	07/09/21 13:58	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/08/21 11:01	07/09/21 13:58	1
Total TPH	<49.7	U	49.7	mg/Kg		07/08/21 11:01	07/09/21 13:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			07/08/21 11:01	07/09/21 13:58	1
o-Terphenyl (Surr)	100		70 - 130			07/08/21 11:01	07/09/21 13:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		5.03	mg/Kg			07/15/21 05:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-50 3'

Date Collected: 06/30/21 09:54

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-17

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.8		5.02	mg/Kg			07/15/21 05:22	1

Client Sample ID: S-51 1'

Date Collected: 06/30/21 10:39

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 20:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 20:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 20:53	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/10/21 15:13	07/10/21 20:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 20:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/10/21 15:13	07/10/21 20:53	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/10/21 15:13	07/10/21 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	07/10/21 15:13	07/10/21 20:53	1
1,4-Difluorobenzene (Surr)	122		70 - 130	07/10/21 15:13	07/10/21 20:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 14:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 14:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 14:19	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	07/08/21 11:01	07/09/21 14:19	1
o-Terphenyl (Surr)	102		70 - 130	07/08/21 11:01	07/09/21 14:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		4.96	mg/Kg			07/15/21 05:49	1

Client Sample ID: S-53 1'

Date Collected: 06/30/21 11:08

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-23

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/10/21 15:13	07/10/21 21:14	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/10/21 15:13	07/10/21 21:14	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/10/21 15:13	07/10/21 21:14	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		07/10/21 15:13	07/10/21 21:14	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/10/21 15:13	07/10/21 21:14	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/10/21 15:13	07/10/21 21:14	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		07/10/21 15:13	07/10/21 21:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-53 1'

Date Collected: 06/30/21 11:08

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-23

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			07/10/21 15:13	07/10/21 21:14	1
1,4-Difluorobenzene (Surr)	111		70 - 130			07/10/21 15:13	07/10/21 21:14	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 14:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 14:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 14:40	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 14:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			07/08/21 11:01	07/09/21 14:40	1
o-Terphenyl (Surr)	101		70 - 130			07/08/21 11:01	07/09/21 14:40	1

Client Sample ID: S-52 1'

Date Collected: 07/01/21 07:43

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-27

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/10/21 15:13	07/10/21 21:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/10/21 15:13	07/10/21 21:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/10/21 15:13	07/10/21 21:34	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		07/10/21 15:13	07/10/21 21:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/10/21 15:13	07/10/21 21:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/10/21 15:13	07/10/21 21:34	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/10/21 15:13	07/10/21 21:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			07/10/21 15:13	07/10/21 21:34	1
1,4-Difluorobenzene (Surr)	116		70 - 130			07/10/21 15:13	07/10/21 21:34	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 15:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 15:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 15:01	1
Total TPH	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 15:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			07/08/21 11:01	07/09/21 15:01	1
o-Terphenyl (Surr)	104		70 - 130			07/08/21 11:01	07/09/21 15:01	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-52 1'

Date Collected: 07/01/21 07:43

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-27

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	932		4.96	mg/Kg			07/15/21 06:36	1

Client Sample ID: S-52 3'

Date Collected: 07/01/21 07:44

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-28

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	218		5.02	mg/Kg			07/15/21 06:41	1

Client Sample ID: S-39 1'

Date Collected: 07/01/21 08:08

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-30

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 21:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 21:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 21:55	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/10/21 15:13	07/10/21 21:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 21:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/10/21 15:13	07/10/21 21:55	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/10/21 15:13	07/10/21 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	07/10/21 15:13	07/10/21 21:55	1
1,4-Difluorobenzene (Surr)	118		70 - 130	07/10/21 15:13	07/10/21 21:55	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 15:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 15:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 15:22	1
Total TPH	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130	07/08/21 11:01	07/09/21 15:22	1
o-Terphenyl (Surr)	101		70 - 130	07/08/21 11:01	07/09/21 15:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.5		5.00	mg/Kg			07/15/21 06:52	1

Client Sample ID: S-37 1'

Date Collected: 07/01/21 08:33

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-33

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/10/21 15:13	07/10/21 22:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-37 1'

Lab Sample ID: 880-3810-33

Date Collected: 07/01/21 08:33

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00202	U	0.00202	mg/Kg		07/10/21 15:13	07/10/21 22:16	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/10/21 15:13	07/10/21 22:16	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		07/10/21 15:13	07/10/21 22:16	1
o-Xylene	0.00238		0.00202	mg/Kg		07/10/21 15:13	07/10/21 22:16	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/10/21 15:13	07/10/21 22:16	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		07/10/21 15:13	07/10/21 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	07/10/21 15:13	07/10/21 22:16	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/10/21 15:13	07/10/21 22:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 16:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 16:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 16:04	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	07/08/21 11:01	07/09/21 16:04	1
o-Terphenyl (Surr)	102		70 - 130	07/08/21 11:01	07/09/21 16:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.48		4.96	mg/Kg			07/12/21 08:29	1

Client Sample ID: S-43 1'

Lab Sample ID: 880-3810-36

Date Collected: 07/01/21 09:13

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00362		0.00199	mg/Kg		07/10/21 15:13	07/10/21 22:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/10/21 15:13	07/10/21 22:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/10/21 15:13	07/10/21 22:37	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		07/10/21 15:13	07/10/21 22:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/10/21 15:13	07/10/21 22:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/10/21 15:13	07/10/21 22:37	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/10/21 15:13	07/10/21 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	07/10/21 15:13	07/10/21 22:37	1
1,4-Difluorobenzene (Surr)	120		70 - 130	07/10/21 15:13	07/10/21 22:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 16:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 16:24	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-43 1'

Lab Sample ID: 880-3810-36

Date Collected: 07/01/21 09:13

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 16:24	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 16:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			07/08/21 11:01	07/09/21 16:24	1
o-Terphenyl (Surr)	104		70 - 130			07/08/21 11:01	07/09/21 16:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.5		5.11	mg/Kg			07/12/21 08:53	1

Client Sample ID: S-30 1'

Lab Sample ID: 880-3810-39

Date Collected: 07/01/21 09:38

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:37	07/08/21 19:54	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:37	07/08/21 19:54	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:37	07/08/21 19:54	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		07/08/21 09:37	07/08/21 19:54	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:37	07/08/21 19:54	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/08/21 09:37	07/08/21 19:54	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/08/21 09:37	07/08/21 19:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			07/08/21 09:37	07/08/21 19:54	1
1,4-Difluorobenzene (Surr)	110		70 - 130			07/08/21 09:37	07/08/21 19:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 16:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 16:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 16:45	1
Total TPH	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 16:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			07/08/21 11:01	07/09/21 16:45	1
o-Terphenyl (Surr)	99		70 - 130			07/08/21 11:01	07/09/21 16:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.81		5.00	mg/Kg			07/12/21 09:18	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-29 1'

Date Collected: 07/01/21 09:58

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-42

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 20:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 20:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 20:15	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/08/21 09:37	07/08/21 20:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 20:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/08/21 09:37	07/08/21 20:15	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/08/21 09:37	07/08/21 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/08/21 09:37	07/08/21 20:15	1
1,4-Difluorobenzene (Surr)	104		70 - 130	07/08/21 09:37	07/08/21 20:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 17:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 17:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 17:06	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	07/08/21 11:01	07/09/21 17:06	1
o-Terphenyl (Surr)	101		70 - 130	07/08/21 11:01	07/09/21 17:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2620		50.3	mg/Kg			07/12/21 12:05	10

Client Sample ID: S-29 3'

Date Collected: 07/01/21 09:59

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-43

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.9		5.05	mg/Kg			07/12/21 09:37	1

Client Sample ID: S-28 1'

Date Collected: 07/01/21 10:38

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-45

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:37	07/08/21 20:35	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:37	07/08/21 20:35	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:37	07/08/21 20:35	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		07/08/21 09:37	07/08/21 20:35	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:37	07/08/21 20:35	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/08/21 09:37	07/08/21 20:35	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/08/21 09:37	07/08/21 20:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-28 1'

Date Collected: 07/01/21 10:38

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-45

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			07/08/21 09:37	07/08/21 20:35	1
1,4-Difluorobenzene (Surr)	102		70 - 130			07/08/21 09:37	07/08/21 20:35	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 17:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 17:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 17:27	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 17:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			07/08/21 11:01	07/09/21 17:27	1
o-Terphenyl (Surr)	96		70 - 130			07/08/21 11:01	07/09/21 17:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.1		4.98	mg/Kg			07/12/21 09:57	1

Client Sample ID: S-31 1'

Date Collected: 07/01/21 12:18

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-48

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 20:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 20:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 20:56	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/08/21 09:37	07/08/21 20:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 20:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/08/21 09:37	07/08/21 20:56	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/08/21 09:37	07/08/21 20:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			07/08/21 09:37	07/08/21 20:56	1
1,4-Difluorobenzene (Surr)	91		70 - 130			07/08/21 09:37	07/08/21 20:56	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 17:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 17:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 17:48	1
Total TPH	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 17:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			07/08/21 11:01	07/09/21 17:48	1
o-Terphenyl (Surr)	114		70 - 130			07/08/21 11:01	07/09/21 17:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-31 1'

Date Collected: 07/01/21 12:18

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-48

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.96		5.05	mg/Kg			07/12/21 10:21	1

Client Sample ID: S-32 1'

Date Collected: 07/01/21 12:48

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-51

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:37	07/08/21 21:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:37	07/08/21 21:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:37	07/08/21 21:17	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		07/08/21 09:37	07/08/21 21:17	1
o-Xylene	0.00442		0.00201	mg/Kg		07/08/21 09:37	07/08/21 21:17	1
Xylenes, Total	0.00442		0.00402	mg/Kg		07/08/21 09:37	07/08/21 21:17	1
Total BTEX	0.00442		0.00402	mg/Kg		07/08/21 09:37	07/08/21 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	07/08/21 09:37	07/08/21 21:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/08/21 09:37	07/08/21 21:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 18:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 18:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 18:09	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	07/08/21 11:01	07/09/21 18:09	1
o-Terphenyl (Surr)	106		70 - 130	07/08/21 11:01	07/09/21 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	478		4.99	mg/Kg			07/12/21 10:36	1

Client Sample ID: S-33 1'

Date Collected: 07/01/21 13:18

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-54

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 21:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 21:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 21:37	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		07/08/21 09:37	07/08/21 21:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 21:37	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/08/21 09:37	07/08/21 21:37	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/08/21 09:37	07/08/21 21:37	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-33 1'

Date Collected: 07/01/21 13:18

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-54

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	07/08/21 09:37	07/08/21 21:37	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/08/21 09:37	07/08/21 21:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 18:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 18:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 18:30	1
Total TPH	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130	07/08/21 11:01	07/09/21 18:30	1
o-Terphenyl (Surr)	106		70 - 130	07/08/21 11:01	07/09/21 18:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1670		25.0	mg/Kg			07/12/21 13:06	5

Client Sample ID: S-33 3'

Date Collected: 07/01/21 13:19

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-55

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3680		25.1	mg/Kg			07/12/21 13:10	5

Client Sample ID: S-33 5'

Date Collected: 07/01/21 13:20

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-56

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.3		5.04	mg/Kg			07/12/21 13:15	1

Client Sample ID: S-34 1'

Date Collected: 07/01/21 13:48

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-57

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:37	07/08/21 21:58	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:37	07/08/21 21:58	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:37	07/08/21 21:58	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		07/08/21 09:37	07/08/21 21:58	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:37	07/08/21 21:58	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/08/21 09:37	07/08/21 21:58	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/08/21 09:37	07/08/21 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/08/21 09:37	07/08/21 21:58	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/08/21 09:37	07/08/21 21:58	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-34 1'

Lab Sample ID: 880-3810-57

Date Collected: 07/01/21 13:48

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 18:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 18:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 18:51	1
Total TPH	<49.9	U	49.9	mg/Kg		07/08/21 11:01	07/09/21 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	07/08/21 11:01	07/09/21 18:51	1
o-Terphenyl (Surr)	104		70 - 130	07/08/21 11:01	07/09/21 18:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.8		4.98	mg/Kg			07/12/21 13:20	1

Client Sample ID: S-40 1'

Lab Sample ID: 880-3810-60

Date Collected: 07/01/21 14:18

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 22:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 22:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 22:19	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		07/08/21 09:37	07/08/21 22:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 22:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/08/21 09:37	07/08/21 22:19	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/08/21 09:37	07/08/21 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	07/08/21 09:37	07/08/21 22:19	1
1,4-Difluorobenzene (Surr)	118		70 - 130	07/08/21 09:37	07/08/21 22:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 19:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 19:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 19:12	1
Total TPH	<49.8	U	49.8	mg/Kg		07/08/21 11:01	07/09/21 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	07/08/21 11:01	07/09/21 19:12	1
o-Terphenyl (Surr)	107		70 - 130	07/08/21 11:01	07/09/21 19:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4400		25.2	mg/Kg			07/12/21 13:45	5

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-40 3'

Date Collected: 07/01/21 14:19

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-61

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	483		5.00	mg/Kg			07/12/21 13:50	1

Client Sample ID: S-54 1'

Date Collected: 07/02/21 07:33

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-63

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:37	07/09/21 08:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:37	07/09/21 08:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:37	07/09/21 08:48	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		07/08/21 09:37	07/09/21 08:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:37	07/09/21 08:48	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/08/21 09:37	07/09/21 08:48	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/08/21 09:37	07/09/21 08:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/08/21 09:37	07/09/21 08:48	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/08/21 09:37	07/09/21 08:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/08/21 14:24	07/09/21 17:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/08/21 14:24	07/09/21 17:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/08/21 14:24	07/09/21 17:48	1
Total TPH	<49.8	U	49.8	mg/Kg		07/08/21 14:24	07/09/21 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	07/08/21 14:24	07/09/21 17:48	1
o-Terphenyl (Surr)	111		70 - 130	07/08/21 14:24	07/09/21 17:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710	F1	25.1	mg/Kg			07/12/21 13:59	5

Client Sample ID: S-54 3'

Date Collected: 07/02/21 07:34

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-64

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		5.04	mg/Kg			07/12/21 14:14	1

Client Sample ID: S-55 1'

Date Collected: 07/02/21 00:00

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-65

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/09/21 09:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-55 1'

Date Collected: 07/02/21 00:00

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-65

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/09/21 09:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/09/21 09:08	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/08/21 09:37	07/09/21 09:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/09/21 09:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/08/21 09:37	07/09/21 09:08	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/08/21 09:37	07/09/21 09:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	07/08/21 09:37	07/09/21 09:08	1
1,4-Difluorobenzene (Surr)	105		70 - 130	07/08/21 09:37	07/09/21 09:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 14:24	07/09/21 18:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 14:24	07/09/21 18:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 14:24	07/09/21 18:09	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 14:24	07/09/21 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	07/08/21 14:24	07/09/21 18:09	1
o-Terphenyl (Surr)	100		70 - 130	07/08/21 14:24	07/09/21 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	804		4.95	mg/Kg			07/12/21 14:19	1

Client Sample ID: S-55 3'

Date Collected: 07/02/21 00:00

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-66

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.9		4.99	mg/Kg			07/12/21 14:34	1

Client Sample ID: S-62 1'

Date Collected: 07/02/21 00:00

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-68

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/08/21 12:00	07/08/21 16:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/08/21 12:00	07/08/21 16:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/08/21 12:00	07/08/21 16:27	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		07/08/21 12:00	07/08/21 16:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/08/21 12:00	07/08/21 16:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/08/21 12:00	07/08/21 16:27	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/08/21 12:00	07/08/21 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/08/21 12:00	07/08/21 16:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-62 1'

Lab Sample ID: 880-3810-68

Date Collected: 07/02/21 00:00

Matrix: Solid

Date Received: 07/08/21 09:16

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	07/08/21 12:00	07/08/21 16:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/08/21 14:24	07/09/21 18:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/08/21 14:24	07/09/21 18:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/08/21 14:24	07/09/21 18:30	1
Total TPH	<49.9	U	49.9	mg/Kg		07/08/21 14:24	07/09/21 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	07/08/21 14:24	07/09/21 18:30	1
o-Terphenyl (Surr)	106		70 - 130	07/08/21 14:24	07/09/21 18:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	285		4.97	mg/Kg			07/12/21 14:43	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-3810-1	S-41 1'	117	103
880-3810-5	S-46 1'	120	102
880-3810-8	S-45 1'	113	111
880-3810-8 MS	S-45 1'	106	106
880-3810-8 MSD	S-45 1'	99	98
880-3810-11	S-47 1'	111	102
880-3810-11 MS	S-47 1'	107	98
880-3810-11 MSD	S-47 1'	98	105
880-3810-14	S-49 1'	97	98
880-3810-16	S-50 1'	117	104
880-3810-20	S-51 1'	128	122
880-3810-23	S-53 1'	125	111
880-3810-27	S-52 1'	125	116
880-3810-30	S-39 1'	113	118
880-3810-33	S-37 1'	113	108
880-3810-36	S-43 1'	133 S1+	120
880-3810-39	S-30 1'	109	110
880-3810-42	S-29 1'	112	104
880-3810-45	S-28 1'	107	102
880-3810-48	S-31 1'	123	91
880-3810-51	S-32 1'	113	96
880-3810-54	S-33 1'	121	108
880-3810-57	S-34 1'	107	103
880-3810-60	S-40 1'	116	118
880-3810-63	S-54 1'	111	95
880-3810-65	S-55 1'	121	105
880-3810-68	S-62 1'	107	102
880-3810-68 MS	S-62 1'	116	93
880-3810-68 MSD	S-62 1'	103	99
890-894-A-15-H MS	Matrix Spike	105	105
890-894-A-15-I MSD	Matrix Spike Duplicate	112	105
LCS 880-4953/1-A	Lab Control Sample	112	109
LCS 880-4955/1-A	Lab Control Sample	101	98
LCS 880-4993/1-A	Lab Control Sample	102	96
LCS 880-5060/1-A	Lab Control Sample	117	121
LCSD 880-4953/2-A	Lab Control Sample Dup	112	105
LCSD 880-4955/2-A	Lab Control Sample Dup	100	95
LCSD 880-4993/2-A	Lab Control Sample Dup	102	94
LCSD 880-5060/2-A	Lab Control Sample Dup	107	99
MB 880-4953/5-A	Method Blank	113	86
MB 880-4955/5-A	Method Blank	115	100
MB 880-4993/5-A	Method Blank	107	90
MB 880-5060/5-A	Method Blank	108	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-3810-1

Project/Site: Palmio AST

Method: 8015B NM - Diesel Range Organics (DRO) (GC)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-3810-1	S-41 1'	90	102
880-3810-1 MS	S-41 1'	86	85
880-3810-1 MSD	S-41 1'	84	84
880-3810-5	S-46 1'	86	97
880-3810-8	S-45 1'	82	96
880-3810-11	S-47 1'	82	92
880-3810-14	S-49 1'	86	99
880-3810-16	S-50 1'	87	100
880-3810-20	S-51 1'	93	102
880-3810-23	S-53 1'	90	101
880-3810-27	S-52 1'	90	104
880-3810-30	S-39 1'	90	101
880-3810-33	S-37 1'	88	102
880-3810-36	S-43 1'	91	104
880-3810-39	S-30 1'	87	99
880-3810-42	S-29 1'	88	101
880-3810-45	S-28 1'	83	96
880-3810-48	S-31 1'	95	114
880-3810-51	S-32 1'	94	106
880-3810-54	S-33 1'	90	106
880-3810-57	S-34 1'	91	104
880-3810-60	S-40 1'	92	107
880-3810-63	S-54 1'	102	111
880-3810-65	S-55 1'	91	100
880-3810-68	S-62 1'	96	106
890-897-A-1-K MS	Matrix Spike	101	98
890-897-A-1-L MSD	Matrix Spike Duplicate	101	100
LCS 880-4966/2-A	Lab Control Sample	79	82
LCS 880-4985/2-A	Lab Control Sample	92	89
LCSD 880-4966/3-A	Lab Control Sample Dup	78	80
LCSD 880-4985/3-A	Lab Control Sample Dup	94	90
MB 880-4966/1-A	Method Blank	88	101
MB 880-4985/1-A	Method Blank	104	114

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4953/5-A

Matrix: Solid

Analysis Batch: 4965

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4953

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 15:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 15:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 15:05	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/08/21 09:37	07/08/21 15:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:37	07/08/21 15:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/08/21 09:37	07/08/21 15:05	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/08/21 09:37	07/08/21 15:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	07/08/21 09:37	07/08/21 15:05	1
1,4-Difluorobenzene (Surr)	86		70 - 130	07/08/21 09:37	07/08/21 15:05	1

Lab Sample ID: LCS 880-4953/1-A

Matrix: Solid

Analysis Batch: 4965

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07714		mg/Kg		77	70 - 130
Toluene	0.100	0.08327		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.09389		mg/Kg		94	70 - 130
m,p-Xylenes	0.200	0.1703		mg/Kg		85	70 - 130
o-Xylene	0.100	0.09814		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-4953/2-A

Matrix: Solid

Analysis Batch: 4965

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4953

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07598		mg/Kg		76	70 - 130	2	35
Toluene	0.100	0.08447		mg/Kg		84	70 - 130	1	35
Ethylbenzene	0.100	0.09595		mg/Kg		96	70 - 130	2	35
m,p-Xylenes	0.200	0.1656		mg/Kg		83	70 - 130	3	35
o-Xylene	0.100	0.09830		mg/Kg		98	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-3810-8 MS

Matrix: Solid

Analysis Batch: 4965

Client Sample ID: S-45 1'

Prep Type: Total/NA

Prep Batch: 4953

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0994	0.05057	F1	mg/Kg		51	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-3810-8 MS

Matrix: Solid

Analysis Batch: 4965

Client Sample ID: S-45 1'

Prep Type: Total/NA

Prep Batch: 4953

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00199	U F1	0.0994	0.05158	F1	mg/Kg		52	70 - 130
Ethylbenzene	<0.00199	U F1	0.0994	0.05410	F1	mg/Kg		54	70 - 130
m,p-Xylenes	<0.00398	U F1	0.199	0.09745	F1	mg/Kg		49	70 - 130
o-Xylene	<0.00199	U F1	0.0994	0.05889	F1	mg/Kg		59	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-3810-8 MSD

Matrix: Solid

Analysis Batch: 4965

Client Sample ID: S-45 1'

Prep Type: Total/NA

Prep Batch: 4953

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.05018	F1	mg/Kg		50	70 - 130	1	35
Toluene	<0.00199	U F1	0.0998	0.04658	F1	mg/Kg		47	70 - 130	10	35
Ethylbenzene	<0.00199	U F1	0.0998	0.04696	F1	mg/Kg		47	70 - 130	14	35
m,p-Xylenes	<0.00398	U F1	0.200	0.08091	F1	mg/Kg		41	70 - 130	19	35
o-Xylene	<0.00199	U F1	0.0998	0.04780	F1	mg/Kg		48	70 - 130	21	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-4955/5-A

Matrix: Solid

Analysis Batch: 4962

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4955

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 10:35	07/08/21 15:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 10:35	07/08/21 15:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 10:35	07/08/21 15:58	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/08/21 10:35	07/08/21 15:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 10:35	07/08/21 15:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/08/21 10:35	07/08/21 15:58	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/08/21 10:35	07/08/21 15:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/08/21 10:35	07/08/21 15:58	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/08/21 10:35	07/08/21 15:58	1

Lab Sample ID: LCS 880-4955/1-A

Matrix: Solid

Analysis Batch: 4962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08702		mg/Kg		87	70 - 130
Toluene	0.100	0.09978		mg/Kg		100	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-4955/1-A

Matrix: Solid

Analysis Batch: 4962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.1067		mg/Kg		107	70 - 130
m,p-Xylenes	0.200	0.2208		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1110		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-4955/2-A

Matrix: Solid

Analysis Batch: 4962

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4955

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08674		mg/Kg		87	70 - 130	0	35
Toluene	0.100	0.09993		mg/Kg		100	70 - 130	0	35
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130	1	35
m,p-Xylenes	0.200	0.2123		mg/Kg		106	70 - 130	4	35
o-Xylene	0.100	0.1085		mg/Kg		108	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-3810-68 MS

Matrix: Solid

Analysis Batch: 4962

Client Sample ID: S-62 1'

Prep Type: Total/NA

Prep Batch: 4955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.100	0.1004		mg/Kg		100	70 - 130
Toluene	<0.00199	U	0.100	0.1214		mg/Kg		121	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.1244		mg/Kg		124	70 - 130
m,p-Xylenes	<0.00398	U F1	0.200	0.2611	F1	mg/Kg		131	70 - 130
o-Xylene	<0.00199	U	0.100	0.1289		mg/Kg		129	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-3810-68 MSD

Matrix: Solid

Analysis Batch: 4962

Client Sample ID: S-62 1'

Prep Type: Total/NA

Prep Batch: 4955

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U	0.0996	0.1109		mg/Kg		111	70 - 130	10	35
Toluene	<0.00199	U	0.0996	0.1195		mg/Kg		120	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.0996	0.1196		mg/Kg		120	70 - 130	4	35
m,p-Xylenes	<0.00398	U F1	0.199	0.2446		mg/Kg		123	70 - 130	7	35
o-Xylene	<0.00199	U	0.0996	0.1196		mg/Kg		120	70 - 130	7	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-4993/5-A

Matrix: Solid

Analysis Batch: 5006

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4993

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 15:42	07/09/21 12:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 15:42	07/09/21 12:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 15:42	07/09/21 12:45	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/08/21 15:42	07/09/21 12:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 15:42	07/09/21 12:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/08/21 15:42	07/09/21 12:45	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/08/21 15:42	07/09/21 12:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/08/21 15:42	07/09/21 12:45	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/08/21 15:42	07/09/21 12:45	1

Lab Sample ID: LCS 880-4993/1-A

Matrix: Solid

Analysis Batch: 5006

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07440		mg/Kg		74	70 - 130
Toluene	0.100	0.07520		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07308		mg/Kg		73	70 - 130
m,p-Xylenes	0.200	0.1421		mg/Kg		71	70 - 130
o-Xylene	0.100	0.07960		mg/Kg		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-4993/2-A

Matrix: Solid

Analysis Batch: 5006

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4993

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07565		mg/Kg		76	70 - 130	2	35
Toluene	0.100	0.07228		mg/Kg		72	70 - 130	4	35
Ethylbenzene	0.100	0.07587		mg/Kg		76	70 - 130	4	35
m,p-Xylenes	0.200	0.1431		mg/Kg		72	70 - 130	1	35
o-Xylene	0.100	0.08519		mg/Kg		85	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-894-A-15-H MS

Matrix: Solid

Analysis Batch: 5006

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 4993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.101	0.04168	F1	mg/Kg		41	70 - 130
Toluene	<0.00200	U F1	0.101	0.05340	F1	mg/Kg		52	70 - 130
Ethylbenzene	<0.00200	U F1	0.101	0.05563	F1	mg/Kg		54	70 - 130
m,p-Xylenes	<0.00399	U F1	0.202	0.1001	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00200	U F1	0.101	0.05789	F1	mg/Kg		56	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-894-A-15-I MSD

Matrix: Solid

Analysis Batch: 5006

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 4993

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.05586	F1	mg/Kg		56	70 - 130	29	35
Toluene	<0.00200	U F1	0.0994	0.06398	F1	mg/Kg		63	70 - 130	18	35
Ethylbenzene	<0.00200	U F1	0.0994	0.06898	F1	mg/Kg		68	70 - 130	21	35
m,p-Xylenes	<0.00399	U F1	0.199	0.1179	F1	mg/Kg		59	70 - 130	16	35
o-Xylene	<0.00200	U F1	0.0994	0.07656		mg/Kg		76	70 - 130	28	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-5060/5-A

Matrix: Solid

Analysis Batch: 5062

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5060

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 19:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 19:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 19:29	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/10/21 15:13	07/10/21 19:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/10/21 15:13	07/10/21 19:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/10/21 15:13	07/10/21 19:29	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/10/21 15:13	07/10/21 19:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/10/21 15:13	07/10/21 19:29	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/10/21 15:13	07/10/21 19:29	1

Lab Sample ID: LCS 880-5060/1-A

Matrix: Solid

Analysis Batch: 5062

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08572		mg/Kg		86	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-5060/1-A

Matrix: Solid

Analysis Batch: 5062

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.100	0.08115		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.1103		mg/Kg		110	70 - 130
m,p-Xylenes	0.200	0.1516		mg/Kg		76	70 - 130
o-Xylene	0.100	0.09488		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: LCSD 880-5060/2-A

Matrix: Solid

Analysis Batch: 5062

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5060

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07366		mg/Kg		74	70 - 130	15	35
Toluene	0.100	0.07120		mg/Kg		71	70 - 130	13	35
Ethylbenzene	0.100	0.07977		mg/Kg		80	70 - 130	32	35
m,p-Xylenes	0.200	0.1433		mg/Kg		72	70 - 130	6	35
o-Xylene	0.100	0.08577		mg/Kg		86	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-3810-11 MS

Matrix: Solid

Analysis Batch: 5062

Client Sample ID: S-47 1'

Prep Type: Total/NA

Prep Batch: 5060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0996	0.05205	F1	mg/Kg		52	70 - 130
Toluene	<0.00199	U F1	0.0996	0.05869	F1	mg/Kg		59	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.06448	F1	mg/Kg		64	70 - 130
m,p-Xylenes	<0.00398	U F1	0.199	0.1131	F1	mg/Kg		57	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.06366	F1	mg/Kg		64	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-3810-11 MSD

Matrix: Solid

Analysis Batch: 5062

Client Sample ID: S-47 1'

Prep Type: Total/NA

Prep Batch: 5060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0992	0.04786	F1	mg/Kg		48	70 - 130	8	35
Toluene	<0.00199	U F1	0.0992	0.05034	F1	mg/Kg		51	70 - 130	15	35
Ethylbenzene	<0.00199	U F1	0.0992	0.05957	F1	mg/Kg		59	70 - 130	8	35
m,p-Xylenes	<0.00398	U F1	0.198	0.09971	F1	mg/Kg		50	70 - 130	13	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-3810-11 MSD

Matrix: Solid

Analysis Batch: 5062

Client Sample ID: S-47 1'

Prep Type: Total/NA

Prep Batch: 5060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	<0.00199	U F1	0.0992	0.05871	F1	mg/Kg		59	70 - 130	8	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-4966/1-A

Matrix: Solid

Analysis Batch: 5003

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4966

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 10:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 10:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 10:30	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 11:01	07/09/21 10:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	88		70 - 130	07/08/21 11:01	07/09/21 10:30	1		
o-Terphenyl (Surr)	101		70 - 130	07/08/21 11:01	07/09/21 10:30	1		

Lab Sample ID: LCS 880-4966/2-A

Matrix: Solid

Analysis Batch: 5003

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	971.6		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	937.9		mg/Kg		94	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	79		70 - 130						
o-Terphenyl (Surr)	82		70 - 130						

Lab Sample ID: LCSD 880-4966/3-A

Matrix: Solid

Analysis Batch: 5003

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4966

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	888.0		mg/Kg		89	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	936.0		mg/Kg		94	70 - 130	0	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-4966/3-A

Matrix: Solid

Analysis Batch: 5003

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4966

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	78		70 - 130
o-Terphenyl (Surr)	80		70 - 130

Lab Sample ID: 880-3810-1 MS

Matrix: Solid

Analysis Batch: 5003

Client Sample ID: S-41 1'

Prep Type: Total/NA

Prep Batch: 4966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1137		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1204		mg/Kg		121	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	86		70 - 130						
o-Terphenyl (Surr)	85		70 - 130						

Lab Sample ID: 880-3810-1 MSD

Matrix: Solid

Analysis Batch: 5003

Client Sample ID: S-41 1'

Prep Type: Total/NA

Prep Batch: 4966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1067		mg/Kg		107	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1178		mg/Kg		118	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	84		70 - 130								
o-Terphenyl (Surr)	84		70 - 130								

Lab Sample ID: MB 880-4985/1-A

Matrix: Solid

Analysis Batch: 5001

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4985

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 14:24	07/09/21 10:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 14:24	07/09/21 10:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 14:24	07/09/21 10:30	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 14:24	07/09/21 10:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			07/08/21 14:24	07/09/21 10:30	1
o-Terphenyl (Surr)	114		70 - 130			07/08/21 14:24	07/09/21 10:30	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-4985/2-A

Matrix: Solid

Analysis Batch: 5001

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4985

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1031		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1092		mg/Kg		109	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	92		70 - 130								
o-Terphenyl (Surr)	89		70 - 130								

Lab Sample ID: LCSD 880-4985/3-A

Matrix: Solid

Analysis Batch: 5001

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4985

Top Bottom 1000											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1070		mg/Kg		107	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1132		mg/Kg		113	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane (Surr)	94		70 - 130								
o-Terphenyl (Surr)	90		70 - 130								

Lab Sample ID: 890-897-A-1-K MS

Matrix: Solid

Analysis Batch: 5001

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 4985

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	883.0		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U	999	1023		mg/Kg		101	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	101		70 - 130								
o-Terphenyl (Surr)	98		70 - 130								

Lab Sample ID: 890-897-A-1-L MSD

Matrix: Solid

Analysis Batch: 5001

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 4985

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	997	889.1		mg/Kg		87	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.7	U	997	1034		mg/Kg		102	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	101		70 - 130								

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-897-A-1-L MSD

Matrix: Solid

Analysis Batch: 5001

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 4985

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	100		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4979/1-A

Matrix: Solid

Analysis Batch: 5031

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/12/21 09:15	1

Lab Sample ID: LCS 880-4979/2-A

Matrix: Solid

Analysis Batch: 5031

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-4979/3-A

Matrix: Solid

Analysis Batch: 5031

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	270.1		mg/Kg					

Lab Sample ID: 880-3810-A-3-B MS

Matrix: Solid

Analysis Batch: 5031

Client Sample ID: 880-3810-A-3-B MS

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.48		250	273.8		mg/Kg		107	90 - 110

Lab Sample ID: 880-3810-A-3-C MSD

Matrix: Solid

Analysis Batch: 5031

Client Sample ID: 880-3810-A-3-C MSD

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.48		250	260.1		mg/Kg		101	90 - 110	5	20

Lab Sample ID: MB 880-4980/1-A

Matrix: Solid

Analysis Batch: 5032

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/15/21 04:34	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4980/2-A

Matrix: Solid

Analysis Batch: 5032

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	261.3		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-4980/3-A

Matrix: Solid

Analysis Batch: 5032

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	261.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-3810-23 MS

Matrix: Solid

Analysis Batch: 5032

Client Sample ID: S-53 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	132	F1	250	771.1	F1	mg/Kg		256	90 - 110

Lab Sample ID: 880-3810-23 MSD

Matrix: Solid

Analysis Batch: 5032

Client Sample ID: S-53 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	132	F1	250	772.1	F1	mg/Kg		256	90 - 110	0	20

Lab Sample ID: 880-3810-A-13-B MS

Matrix: Solid

Analysis Batch: 5032

Client Sample ID: 880-3810-A-13-B MS

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.61		252	267.4		mg/Kg		103	90 - 110

Lab Sample ID: 880-3810-A-13-C MSD

Matrix: Solid

Analysis Batch: 5032

Client Sample ID: 880-3810-A-13-C MSD

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.61		252	267.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-4981/1-A

Matrix: Solid

Analysis Batch: 5033

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/12/21 08:14	1

Lab Sample ID: LCS 880-4981/2-A

Matrix: Solid

Analysis Batch: 5033

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	227.8		mg/Kg		91	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-4981/3-A

Matrix: Solid

Analysis Batch: 5033

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	227.3		mg/Kg		91	90 - 110	0	20

Lab Sample ID: 880-3810-33 MS

Matrix: Solid

Analysis Batch: 5033

Client Sample ID: S-37 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.48		248	253.0		mg/Kg		100	90 - 110		

Lab Sample ID: 880-3810-33 MSD

Matrix: Solid

Analysis Batch: 5033

Client Sample ID: S-37 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.48		248	249.8		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-3810-43 MS

Matrix: Solid

Analysis Batch: 5033

Client Sample ID: S-29 3'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	77.9		253	322.3		mg/Kg		97	90 - 110		

Lab Sample ID: 880-3810-43 MSD

Matrix: Solid

Analysis Batch: 5033

Client Sample ID: S-29 3'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	77.9		253	321.6		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-4982/1-A

Matrix: Solid

Analysis Batch: 5035

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/12/21 12:36	1

Lab Sample ID: LCS 880-4982/2-A

Matrix: Solid

Analysis Batch: 5035

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	228.2		mg/Kg		91	90 - 110		

Lab Sample ID: LCSD 880-4982/3-A

Matrix: Solid

Analysis Batch: 5035

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	229.1		mg/Kg		92	90 - 110	0	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-3810-63 MS

Matrix: Solid

Analysis Batch: 5035

Client Sample ID: S-54 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1710	F1	1260	3135	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-3810-63 MSD

Matrix: Solid

Analysis Batch: 5035

Client Sample ID: S-54 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1710	F1	1260	3132	F1	mg/Kg		113	90 - 110	0	20

Lab Sample ID: 880-3810-A-53-C MS

Matrix: Solid

Analysis Batch: 5035

Client Sample ID: 880-3810-A-53-C MS

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	91.0		252	334.0		mg/Kg		97	90 - 110		

Lab Sample ID: 880-3810-A-53-D MSD

Matrix: Solid

Analysis Batch: 5035

Client Sample ID: 880-3810-A-53-D MSD

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	91.0		252	332.4		mg/Kg		96	90 - 110	0	20

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

GC VOA

Prep Batch: 4953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-8	S-45 1'	Total/NA	Solid	5035	
880-3810-39	S-30 1'	Total/NA	Solid	5035	
880-3810-42	S-29 1'	Total/NA	Solid	5035	
880-3810-45	S-28 1'	Total/NA	Solid	5035	
880-3810-48	S-31 1'	Total/NA	Solid	5035	
880-3810-51	S-32 1'	Total/NA	Solid	5035	
880-3810-54	S-33 1'	Total/NA	Solid	5035	
880-3810-57	S-34 1'	Total/NA	Solid	5035	
880-3810-60	S-40 1'	Total/NA	Solid	5035	
880-3810-63	S-54 1'	Total/NA	Solid	5035	
880-3810-65	S-55 1'	Total/NA	Solid	5035	
MB 880-4953/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4953/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4953/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-3810-8 MS	S-45 1'	Total/NA	Solid	5035	
880-3810-8 MSD	S-45 1'	Total/NA	Solid	5035	

Prep Batch: 4955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-68	S-62 1'	Total/NA	Solid	5035	
MB 880-4955/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4955/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4955/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-3810-68 MS	S-62 1'	Total/NA	Solid	5035	
880-3810-68 MSD	S-62 1'	Total/NA	Solid	5035	

Analysis Batch: 4962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-68	S-62 1'	Total/NA	Solid	8021B	4955
MB 880-4955/5-A	Method Blank	Total/NA	Solid	8021B	4955
LCS 880-4955/1-A	Lab Control Sample	Total/NA	Solid	8021B	4955
LCSD 880-4955/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4955
880-3810-68 MS	S-62 1'	Total/NA	Solid	8021B	4955
880-3810-68 MSD	S-62 1'	Total/NA	Solid	8021B	4955

Analysis Batch: 4965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-8	S-45 1'	Total/NA	Solid	8021B	4953
880-3810-39	S-30 1'	Total/NA	Solid	8021B	4953
880-3810-42	S-29 1'	Total/NA	Solid	8021B	4953
880-3810-45	S-28 1'	Total/NA	Solid	8021B	4953
880-3810-48	S-31 1'	Total/NA	Solid	8021B	4953
880-3810-51	S-32 1'	Total/NA	Solid	8021B	4953
880-3810-54	S-33 1'	Total/NA	Solid	8021B	4953
880-3810-57	S-34 1'	Total/NA	Solid	8021B	4953
880-3810-60	S-40 1'	Total/NA	Solid	8021B	4953
880-3810-63	S-54 1'	Total/NA	Solid	8021B	4953
880-3810-65	S-55 1'	Total/NA	Solid	8021B	4953
MB 880-4953/5-A	Method Blank	Total/NA	Solid	8021B	4953
LCS 880-4953/1-A	Lab Control Sample	Total/NA	Solid	8021B	4953
LCSD 880-4953/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4953

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

GC VOA (Continued)

Analysis Batch: 4965 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-8 MS	S-45 1'	Total/NA	Solid	8021B	4953
880-3810-8 MSD	S-45 1'	Total/NA	Solid	8021B	4953

Prep Batch: 4993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-1	S-41 1'	Total/NA	Solid	5035	
880-3810-5	S-46 1'	Total/NA	Solid	5035	
MB 880-4993/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4993/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4993/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-894-A-15-H MS	Matrix Spike	Total/NA	Solid	5035	
890-894-A-15-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 5006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-1	S-41 1'	Total/NA	Solid	8021B	4993
880-3810-5	S-46 1'	Total/NA	Solid	8021B	4993
MB 880-4993/5-A	Method Blank	Total/NA	Solid	8021B	4993
LCS 880-4993/1-A	Lab Control Sample	Total/NA	Solid	8021B	4993
LCSD 880-4993/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4993
890-894-A-15-H MS	Matrix Spike	Total/NA	Solid	8021B	4993
890-894-A-15-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	4993

Prep Batch: 5060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-11	S-47 1'	Total/NA	Solid	5035	
880-3810-14	S-49 1'	Total/NA	Solid	5035	
880-3810-16	S-50 1'	Total/NA	Solid	5035	
880-3810-20	S-51 1'	Total/NA	Solid	5035	
880-3810-23	S-53 1'	Total/NA	Solid	5035	
880-3810-27	S-52 1'	Total/NA	Solid	5035	
880-3810-30	S-39 1'	Total/NA	Solid	5035	
880-3810-33	S-37 1'	Total/NA	Solid	5035	
880-3810-36	S-43 1'	Total/NA	Solid	5035	
MB 880-5060/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5060/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5060/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-3810-11 MS	S-47 1'	Total/NA	Solid	5035	
880-3810-11 MSD	S-47 1'	Total/NA	Solid	5035	

Analysis Batch: 5062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-11	S-47 1'	Total/NA	Solid	8021B	5060
880-3810-14	S-49 1'	Total/NA	Solid	8021B	5060
880-3810-16	S-50 1'	Total/NA	Solid	8021B	5060
880-3810-20	S-51 1'	Total/NA	Solid	8021B	5060
880-3810-23	S-53 1'	Total/NA	Solid	8021B	5060
880-3810-27	S-52 1'	Total/NA	Solid	8021B	5060
880-3810-30	S-39 1'	Total/NA	Solid	8021B	5060
880-3810-33	S-37 1'	Total/NA	Solid	8021B	5060
880-3810-36	S-43 1'	Total/NA	Solid	8021B	5060

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

GC VOA (Continued)

Analysis Batch: 5062 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5060/5-A	Method Blank	Total/NA	Solid	8021B	5060
LCS 880-5060/1-A	Lab Control Sample	Total/NA	Solid	8021B	5060
LCSD 880-5060/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5060
880-3810-11 MS	S-47 1'	Total/NA	Solid	8021B	5060
880-3810-11 MSD	S-47 1'	Total/NA	Solid	8021B	5060

GC Semi VOA

Prep Batch: 4966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-1	S-41 1'	Total/NA	Solid	8015NM Prep	
880-3810-5	S-46 1'	Total/NA	Solid	8015NM Prep	
880-3810-8	S-45 1'	Total/NA	Solid	8015NM Prep	
880-3810-11	S-47 1'	Total/NA	Solid	8015NM Prep	
880-3810-14	S-49 1'	Total/NA	Solid	8015NM Prep	
880-3810-16	S-50 1'	Total/NA	Solid	8015NM Prep	
880-3810-20	S-51 1'	Total/NA	Solid	8015NM Prep	
880-3810-23	S-53 1'	Total/NA	Solid	8015NM Prep	
880-3810-27	S-52 1'	Total/NA	Solid	8015NM Prep	
880-3810-30	S-39 1'	Total/NA	Solid	8015NM Prep	
880-3810-33	S-37 1'	Total/NA	Solid	8015NM Prep	
880-3810-36	S-43 1'	Total/NA	Solid	8015NM Prep	
880-3810-39	S-30 1'	Total/NA	Solid	8015NM Prep	
880-3810-42	S-29 1'	Total/NA	Solid	8015NM Prep	
880-3810-45	S-28 1'	Total/NA	Solid	8015NM Prep	
880-3810-48	S-31 1'	Total/NA	Solid	8015NM Prep	
880-3810-51	S-32 1'	Total/NA	Solid	8015NM Prep	
880-3810-54	S-33 1'	Total/NA	Solid	8015NM Prep	
880-3810-57	S-34 1'	Total/NA	Solid	8015NM Prep	
880-3810-60	S-40 1'	Total/NA	Solid	8015NM Prep	
MB 880-4966/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4966/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4966/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-3810-1 MS	S-41 1'	Total/NA	Solid	8015NM Prep	
880-3810-1 MSD	S-41 1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 4985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-63	S-54 1'	Total/NA	Solid	8015NM Prep	
880-3810-65	S-55 1'	Total/NA	Solid	8015NM Prep	
880-3810-68	S-62 1'	Total/NA	Solid	8015NM Prep	
MB 880-4985/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4985/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4985/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-897-A-1-K MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-897-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-63	S-54 1'	Total/NA	Solid	8015B NM	4985
880-3810-65	S-55 1'	Total/NA	Solid	8015B NM	4985

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

GC Semi VOA (Continued)

Analysis Batch: 5001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-68	S-62 1'	Total/NA	Solid	8015B NM	4985
MB 880-4985/1-A	Method Blank	Total/NA	Solid	8015B NM	4985
LCS 880-4985/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4985
LCSD 880-4985/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4985
890-897-A-1-K MS	Matrix Spike	Total/NA	Solid	8015B NM	4985
890-897-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	4985

Analysis Batch: 5003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-1	S-41 1'	Total/NA	Solid	8015B NM	4966
880-3810-5	S-46 1'	Total/NA	Solid	8015B NM	4966
880-3810-8	S-45 1'	Total/NA	Solid	8015B NM	4966
880-3810-11	S-47 1'	Total/NA	Solid	8015B NM	4966
880-3810-14	S-49 1'	Total/NA	Solid	8015B NM	4966
880-3810-16	S-50 1'	Total/NA	Solid	8015B NM	4966
880-3810-20	S-51 1'	Total/NA	Solid	8015B NM	4966
880-3810-23	S-53 1'	Total/NA	Solid	8015B NM	4966
880-3810-27	S-52 1'	Total/NA	Solid	8015B NM	4966
880-3810-30	S-39 1'	Total/NA	Solid	8015B NM	4966
880-3810-33	S-37 1'	Total/NA	Solid	8015B NM	4966
880-3810-36	S-43 1'	Total/NA	Solid	8015B NM	4966
880-3810-39	S-30 1'	Total/NA	Solid	8015B NM	4966
880-3810-42	S-29 1'	Total/NA	Solid	8015B NM	4966
880-3810-45	S-28 1'	Total/NA	Solid	8015B NM	4966
880-3810-48	S-31 1'	Total/NA	Solid	8015B NM	4966
880-3810-51	S-32 1'	Total/NA	Solid	8015B NM	4966
880-3810-54	S-33 1'	Total/NA	Solid	8015B NM	4966
880-3810-57	S-34 1'	Total/NA	Solid	8015B NM	4966
880-3810-60	S-40 1'	Total/NA	Solid	8015B NM	4966
MB 880-4966/1-A	Method Blank	Total/NA	Solid	8015B NM	4966
LCS 880-4966/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4966
LCSD 880-4966/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4966
880-3810-1 MS	S-41 1'	Total/NA	Solid	8015B NM	4966
880-3810-1 MSD	S-41 1'	Total/NA	Solid	8015B NM	4966

HPLC/IC

Leach Batch: 4979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-1	S-41 1'	Soluble	Solid	DI Leach	
880-3810-5	S-46 1'	Soluble	Solid	DI Leach	
880-3810-8	S-45 1'	Soluble	Solid	DI Leach	
880-3810-11	S-47 1'	Soluble	Solid	DI Leach	
MB 880-4979/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4979/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4979/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-3810-A-3-B MS	880-3810-A-3-B MS	Soluble	Solid	DI Leach	
880-3810-A-3-C MSD	880-3810-A-3-C MSD	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

HPLC/IC

Leach Batch: 4980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-14	S-49 1'	Soluble	Solid	DI Leach	
880-3810-16	S-50 1'	Soluble	Solid	DI Leach	
880-3810-17	S-50 3'	Soluble	Solid	DI Leach	
880-3810-20	S-51 1'	Soluble	Solid	DI Leach	
880-3810-23	S-53 1'	Soluble	Solid	DI Leach	
880-3810-27	S-52 1'	Soluble	Solid	DI Leach	
880-3810-28	S-52 3'	Soluble	Solid	DI Leach	
880-3810-30	S-39 1'	Soluble	Solid	DI Leach	
MB 880-4980/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4980/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4980/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-3810-23 MS	S-53 1'	Soluble	Solid	DI Leach	
880-3810-23 MSD	S-53 1'	Soluble	Solid	DI Leach	
880-3810-A-13-B MS	880-3810-A-13-B MS	Soluble	Solid	DI Leach	
880-3810-A-13-C MSD	880-3810-A-13-C MSD	Soluble	Solid	DI Leach	

Leach Batch: 4981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-33	S-37 1'	Soluble	Solid	DI Leach	
880-3810-36	S-43 1'	Soluble	Solid	DI Leach	
880-3810-39	S-30 1'	Soluble	Solid	DI Leach	
880-3810-42	S-29 1'	Soluble	Solid	DI Leach	
880-3810-43	S-29 3'	Soluble	Solid	DI Leach	
880-3810-45	S-28 1'	Soluble	Solid	DI Leach	
880-3810-48	S-31 1'	Soluble	Solid	DI Leach	
880-3810-51	S-32 1'	Soluble	Solid	DI Leach	
MB 880-4981/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4981/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4981/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-3810-33 MS	S-37 1'	Soluble	Solid	DI Leach	
880-3810-33 MSD	S-37 1'	Soluble	Solid	DI Leach	
880-3810-43 MS	S-29 3'	Soluble	Solid	DI Leach	
880-3810-43 MSD	S-29 3'	Soluble	Solid	DI Leach	

Leach Batch: 4982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-54	S-33 1'	Soluble	Solid	DI Leach	
880-3810-55	S-33 3'	Soluble	Solid	DI Leach	
880-3810-56	S-33 5'	Soluble	Solid	DI Leach	
880-3810-57	S-34 1'	Soluble	Solid	DI Leach	
880-3810-60	S-40 1'	Soluble	Solid	DI Leach	
880-3810-61	S-40 3'	Soluble	Solid	DI Leach	
880-3810-63	S-54 1'	Soluble	Solid	DI Leach	
880-3810-64	S-54 3'	Soluble	Solid	DI Leach	
880-3810-65	S-55 1'	Soluble	Solid	DI Leach	
880-3810-66	S-55 3'	Soluble	Solid	DI Leach	
880-3810-68	S-62 1'	Soluble	Solid	DI Leach	
MB 880-4982/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4982/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4982/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-3810-63 MS	S-54 1'	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

HPLC/IC (Continued)

Leach Batch: 4982 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-63 MSD	S-54 1'	Soluble	Solid	DI Leach	
880-3810-A-53-C MS	880-3810-A-53-C MS	Soluble	Solid	DI Leach	
880-3810-A-53-D MSD	880-3810-A-53-D MSD	Soluble	Solid	DI Leach	

Analysis Batch: 5031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-1	S-41 1'	Soluble	Solid	300.0	4979
880-3810-5	S-46 1'	Soluble	Solid	300.0	4979
880-3810-8	S-45 1'	Soluble	Solid	300.0	4979
880-3810-11	S-47 1'	Soluble	Solid	300.0	4979
MB 880-4979/1-A	Method Blank	Soluble	Solid	300.0	4979
LCS 880-4979/2-A	Lab Control Sample	Soluble	Solid	300.0	4979
LCSD 880-4979/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4979
880-3810-A-3-B MS	880-3810-A-3-B MS	Soluble	Solid	300.0	4979
880-3810-A-3-C MSD	880-3810-A-3-C MSD	Soluble	Solid	300.0	4979

Analysis Batch: 5032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-14	S-49 1'	Soluble	Solid	300.0	4980
880-3810-16	S-50 1'	Soluble	Solid	300.0	4980
880-3810-17	S-50 3'	Soluble	Solid	300.0	4980
880-3810-20	S-51 1'	Soluble	Solid	300.0	4980
880-3810-23	S-53 1'	Soluble	Solid	300.0	4980
880-3810-27	S-52 1'	Soluble	Solid	300.0	4980
880-3810-28	S-52 3'	Soluble	Solid	300.0	4980
880-3810-30	S-39 1'	Soluble	Solid	300.0	4980
MB 880-4980/1-A	Method Blank	Soluble	Solid	300.0	4980
LCS 880-4980/2-A	Lab Control Sample	Soluble	Solid	300.0	4980
LCSD 880-4980/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4980
880-3810-23 MS	S-53 1'	Soluble	Solid	300.0	4980
880-3810-23 MSD	S-53 1'	Soluble	Solid	300.0	4980
880-3810-A-13-B MS	880-3810-A-13-B MS	Soluble	Solid	300.0	4980
880-3810-A-13-C MSD	880-3810-A-13-C MSD	Soluble	Solid	300.0	4980

Analysis Batch: 5033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-33	S-37 1'	Soluble	Solid	300.0	4981
880-3810-36	S-43 1'	Soluble	Solid	300.0	4981
880-3810-39	S-30 1'	Soluble	Solid	300.0	4981
880-3810-42	S-29 1'	Soluble	Solid	300.0	4981
880-3810-43	S-29 3'	Soluble	Solid	300.0	4981
880-3810-45	S-28 1'	Soluble	Solid	300.0	4981
880-3810-48	S-31 1'	Soluble	Solid	300.0	4981
880-3810-51	S-32 1'	Soluble	Solid	300.0	4981
MB 880-4981/1-A	Method Blank	Soluble	Solid	300.0	4981
LCS 880-4981/2-A	Lab Control Sample	Soluble	Solid	300.0	4981
LCSD 880-4981/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4981
880-3810-33 MS	S-37 1'	Soluble	Solid	300.0	4981
880-3810-33 MSD	S-37 1'	Soluble	Solid	300.0	4981
880-3810-43 MS	S-29 3'	Soluble	Solid	300.0	4981
880-3810-43 MSD	S-29 3'	Soluble	Solid	300.0	4981

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

HPLC/IC

Analysis Batch: 5035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3810-54	S-33 1'	Soluble	Solid	300.0	4982
880-3810-55	S-33 3'	Soluble	Solid	300.0	4982
880-3810-56	S-33 5'	Soluble	Solid	300.0	4982
880-3810-57	S-34 1'	Soluble	Solid	300.0	4982
880-3810-60	S-40 1'	Soluble	Solid	300.0	4982
880-3810-61	S-40 3'	Soluble	Solid	300.0	4982
880-3810-63	S-54 1'	Soluble	Solid	300.0	4982
880-3810-64	S-54 3'	Soluble	Solid	300.0	4982
880-3810-65	S-55 1'	Soluble	Solid	300.0	4982
880-3810-66	S-55 3'	Soluble	Solid	300.0	4982
880-3810-68	S-62 1'	Soluble	Solid	300.0	4982
MB 880-4982/1-A	Method Blank	Soluble	Solid	300.0	4982
LCS 880-4982/2-A	Lab Control Sample	Soluble	Solid	300.0	4982
LCSD 880-4982/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4982
880-3810-63 MS	S-54 1'	Soluble	Solid	300.0	4982
880-3810-63 MSD	S-54 1'	Soluble	Solid	300.0	4982
880-3810-A-53-C MS	880-3810-A-53-C MS	Soluble	Solid	300.0	4982
880-3810-A-53-D MSD	880-3810-A-53-D MSD	Soluble	Solid	300.0	4982

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-41 1'

Lab Sample ID: 880-3810-1

Date Collected: 06/29/21 14:27

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 15:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 12:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	4979	07/08/21 12:36	CH	XEN MID
Soluble	Analysis	300.0		1			5031	07/12/21 10:40	CH	XEN MID

Client Sample ID: S-46 1'

Lab Sample ID: 880-3810-5

Date Collected: 06/30/21 07:38

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 16:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 11:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4979	07/08/21 12:36	CH	XEN MID
Soluble	Analysis	300.0		1			5031	07/12/21 11:10	CH	XEN MID

Client Sample ID: S-45 1'

Lab Sample ID: 880-3810-8

Date Collected: 06/30/21 08:23

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4953	07/08/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4965	07/08/21 15:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 12:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	4979	07/08/21 12:36	CH	XEN MID
Soluble	Analysis	300.0		1			5031	07/12/21 11:35	CH	XEN MID

Client Sample ID: S-47 1'

Lab Sample ID: 880-3810-11

Date Collected: 06/30/21 08:53

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5060	07/10/21 15:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5062	07/10/21 19:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 13:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.0 g	50 mL	4979	07/08/21 12:36	CH	XEN MID
Soluble	Analysis	300.0		1			5031	07/12/21 12:25	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-49 1'

Lab Sample ID: 880-3810-14

Date Collected: 06/30/21 09:28

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5060	07/10/21 15:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5062	07/10/21 20:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 13:38	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	4980	07/08/21 12:38	CH	XEN MID
Soluble	Analysis	300.0		1			5032	07/15/21 05:06	CH	XEN MID

Client Sample ID: S-50 1'

Lab Sample ID: 880-3810-16

Date Collected: 06/30/21 09:53

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5060	07/10/21 15:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5062	07/10/21 20:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 13:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	4980	07/08/21 12:38	CH	XEN MID
Soluble	Analysis	300.0		1			5032	07/15/21 05:17	CH	XEN MID

Client Sample ID: S-50 3'

Lab Sample ID: 880-3810-17

Date Collected: 06/30/21 09:54

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	4980	07/08/21 12:38	CH	XEN MID
Soluble	Analysis	300.0		1			5032	07/15/21 05:22	CH	XEN MID

Client Sample ID: S-51 1'

Lab Sample ID: 880-3810-20

Date Collected: 06/30/21 10:39

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5060	07/10/21 15:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5062	07/10/21 20:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 14:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	4980	07/08/21 12:38	CH	XEN MID
Soluble	Analysis	300.0		1			5032	07/15/21 05:49	CH	XEN MID

Client Sample ID: S-53 1'

Lab Sample ID: 880-3810-23

Date Collected: 06/30/21 11:08

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5060	07/10/21 15:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5062	07/10/21 21:14	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-53 1'

Date Collected: 06/30/21 11:08

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 14:40	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	4980	07/08/21 12:38	CH	XEN MID
Soluble	Analysis	300.0		1			5032	07/15/21 06:05	CH	XEN MID

Client Sample ID: S-52 1'

Date Collected: 07/01/21 07:43

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5060	07/10/21 15:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5062	07/10/21 21:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 15:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	4980	07/08/21 12:38	CH	XEN MID
Soluble	Analysis	300.0		1			5032	07/15/21 06:36	CH	XEN MID

Client Sample ID: S-52 3'

Date Collected: 07/01/21 07:44

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	4980	07/08/21 12:38	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	5032	07/15/21 06:41	CH	XEN MID

Client Sample ID: S-39 1'

Date Collected: 07/01/21 08:08

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5060	07/10/21 15:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5062	07/10/21 21:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 15:22	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	4980	07/08/21 12:38	CH	XEN MID
Soluble	Analysis	300.0		1			5032	07/15/21 06:52	CH	XEN MID

Client Sample ID: S-37 1'

Date Collected: 07/01/21 08:33

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-33

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5060	07/10/21 15:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5062	07/10/21 22:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 16:04	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-37 1'

Date Collected: 07/01/21 08:33

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-33

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	4981	07/08/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5033	07/12/21 08:29	CH	XEN MID

Client Sample ID: S-43 1'

Date Collected: 07/01/21 09:13

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-36

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5060	07/10/21 15:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5062	07/10/21 22:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 16:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.89 g	50 mL	4981	07/08/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5033	07/12/21 08:53	CH	XEN MID

Client Sample ID: S-30 1'

Date Collected: 07/01/21 09:38

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	4953	07/08/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4965	07/08/21 19:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 16:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	4981	07/08/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5033	07/12/21 09:18	CH	XEN MID

Client Sample ID: S-29 1'

Date Collected: 07/01/21 09:58

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-42

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	4953	07/08/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4965	07/08/21 20:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 17:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	4981	07/08/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		10			5033	07/12/21 12:05	CH	XEN MID

Client Sample ID: S-29 3'

Date Collected: 07/01/21 09:59

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-43

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	4981	07/08/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5033	07/12/21 09:37	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-28 1'**Lab Sample ID: 880-3810-45****Date Collected: 07/01/21 10:38****Matrix: Solid****Date Received: 07/08/21 09:16**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	4953	07/08/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4965	07/08/21 20:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 17:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	4981	07/08/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5033	07/12/21 09:57	CH	XEN MID

Client Sample ID: S-31 1'**Lab Sample ID: 880-3810-48****Date Collected: 07/01/21 12:18****Matrix: Solid****Date Received: 07/08/21 09:16**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	4953	07/08/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4965	07/08/21 20:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 17:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	4981	07/08/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5033	07/12/21 10:21	CH	XEN MID

Client Sample ID: S-32 1'**Lab Sample ID: 880-3810-51****Date Collected: 07/01/21 12:48****Matrix: Solid****Date Received: 07/08/21 09:16**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	4953	07/08/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4965	07/08/21 21:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	4981	07/08/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5033	07/12/21 10:36	CH	XEN MID

Client Sample ID: S-33 1'**Lab Sample ID: 880-3810-54****Date Collected: 07/01/21 13:18****Matrix: Solid****Date Received: 07/08/21 09:16**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4953	07/08/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4965	07/08/21 21:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	4982	07/08/21 12:41	CH	XEN MID
Soluble	Analysis	300.0		5			5035	07/12/21 13:06	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-33 3'

Date Collected: 07/01/21 13:19

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-55

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	4982	07/08/21 12:41	CH	XEN MID
Soluble	Analysis	300.0		5			5035	07/12/21 13:10	CH	XEN MID

Client Sample ID: S-33 5'

Date Collected: 07/01/21 13:20

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-56

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	4982	07/08/21 12:41	CH	XEN MID
Soluble	Analysis	300.0		1			5035	07/12/21 13:15	CH	XEN MID

Client Sample ID: S-34 1'

Date Collected: 07/01/21 13:48

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-57

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	4953	07/08/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4965	07/08/21 21:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 18:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	4982	07/08/21 12:41	CH	XEN MID
Soluble	Analysis	300.0		1			5035	07/12/21 13:20	CH	XEN MID

Client Sample ID: S-40 1'

Date Collected: 07/01/21 14:18

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-60

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4953	07/08/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4965	07/08/21 22:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4966	07/08/21 11:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5003	07/09/21 19:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4982	07/08/21 12:41	CH	XEN MID
Soluble	Analysis	300.0		5			5035	07/12/21 13:45	CH	XEN MID

Client Sample ID: S-40 3'

Date Collected: 07/01/21 14:19

Date Received: 07/08/21 09:16

Lab Sample ID: 880-3810-61

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	4982	07/08/21 12:41	CH	XEN MID
Soluble	Analysis	300.0		1			5035	07/12/21 13:50	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Client Sample ID: S-54 1'

Lab Sample ID: 880-3810-63

Date Collected: 07/02/21 07:33

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	4953	07/08/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4965	07/09/21 08:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4985	07/08/21 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5001	07/09/21 17:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	4982	07/08/21 12:41	CH	XEN MID
Soluble	Analysis	300.0		5			5035	07/12/21 13:59	CH	XEN MID

Client Sample ID: S-54 3'

Lab Sample ID: 880-3810-64

Date Collected: 07/02/21 07:34

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	4982	07/08/21 12:41	CH	XEN MID
Soluble	Analysis	300.0		1			5035	07/12/21 14:14	CH	XEN MID

Client Sample ID: S-55 1'

Lab Sample ID: 880-3810-65

Date Collected: 07/02/21 00:00

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	4953	07/08/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4965	07/09/21 09:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4985	07/08/21 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5001	07/09/21 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4982	07/08/21 12:41	CH	XEN MID
Soluble	Analysis	300.0		1			5035	07/12/21 14:19	CH	XEN MID

Client Sample ID: S-55 3'

Lab Sample ID: 880-3810-66

Date Collected: 07/02/21 00:00

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	4982	07/08/21 12:41	CH	XEN MID
Soluble	Analysis	300.0		1			5035	07/12/21 14:34	CH	XEN MID

Client Sample ID: S-62 1'

Lab Sample ID: 880-3810-68

Date Collected: 07/02/21 00:00

Matrix: Solid

Date Received: 07/08/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4955	07/08/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4962	07/08/21 16:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4985	07/08/21 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5001	07/09/21 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	4982	07/08/21 12:41	CH	XEN MID
Soluble	Analysis	300.0		1			5035	07/12/21 14:43	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Eurofins Xenco, Midland

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3810-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-3810-1	S-41 1'	Solid	06/29/21 14:27	07/08/21 09:16	
880-3810-5	S-46 1'	Solid	06/30/21 07:38	07/08/21 09:16	
880-3810-8	S-45 1'	Solid	06/30/21 08:23	07/08/21 09:16	
880-3810-11	S-47 1'	Solid	06/30/21 08:53	07/08/21 09:16	
880-3810-14	S-49 1'	Solid	06/30/21 09:28	07/08/21 09:16	
880-3810-16	S-50 1'	Solid	06/30/21 09:53	07/08/21 09:16	
880-3810-17	S-50 3'	Solid	06/30/21 09:54	07/08/21 09:16	
880-3810-20	S-51 1'	Solid	06/30/21 10:39	07/08/21 09:16	
880-3810-23	S-53 1'	Solid	06/30/21 11:08	07/08/21 09:16	
880-3810-27	S-52 1'	Solid	07/01/21 07:43	07/08/21 09:16	
880-3810-28	S-52 3'	Solid	07/01/21 07:44	07/08/21 09:16	
880-3810-30	S-39 1'	Solid	07/01/21 08:08	07/08/21 09:16	
880-3810-33	S-37 1'	Solid	07/01/21 08:33	07/08/21 09:16	
880-3810-36	S-43 1'	Solid	07/01/21 09:13	07/08/21 09:16	
880-3810-39	S-30 1'	Solid	07/01/21 09:38	07/08/21 09:16	
880-3810-42	S-29 1'	Solid	07/01/21 09:58	07/08/21 09:16	
880-3810-43	S-29 3'	Solid	07/01/21 09:59	07/08/21 09:16	
880-3810-45	S-28 1'	Solid	07/01/21 10:38	07/08/21 09:16	
880-3810-48	S-31 1'	Solid	07/01/21 12:18	07/08/21 09:16	
880-3810-51	S-32 1'	Solid	07/01/21 12:48	07/08/21 09:16	
880-3810-54	S-33 1'	Solid	07/01/21 13:18	07/08/21 09:16	
880-3810-55	S-33 3'	Solid	07/01/21 13:19	07/08/21 09:16	
880-3810-56	S-33 5'	Solid	07/01/21 13:20	07/08/21 09:16	
880-3810-57	S-34 1'	Solid	07/01/21 13:48	07/08/21 09:16	
880-3810-60	S-40 1'	Solid	07/01/21 14:18	07/08/21 09:16	
880-3810-61	S-40 3'	Solid	07/01/21 14:19	07/08/21 09:16	
880-3810-63	S-54 1'	Solid	07/02/21 07:33	07/08/21 09:16	
880-3810-64	S-54 3'	Solid	07/02/21 07:34	07/08/21 09:16	
880-3810-65	S-55 1'	Solid	07/02/21 00:00	07/08/21 09:16	
880-3810-66	S-55 3'	Solid	07/02/21 00:00	07/08/21 09:16	
880-3810-68	S-62 1'	Solid	07/02/21 00:00	07/08/21 09:16	

Eurofins Xenco, Midland

[illegible]

7/19/2021

7/19/2021

7/19/2021

7/19/2021

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-3810-1

Login Number: 3810

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-3946-1
Client Project/Site: Palmio AST

For:

Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
7/21/2021 2:54:24 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-3946-1

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Midland

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Job ID: 880-3946-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-3946-1

Receipt

The samples were received on 7/13/2021 10:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

Receipt Exceptions

<Analyze chloride to 600 mg/kg per sample>

S-56, 1' (880-3946-1), S-56, 3' (880-3946-2), S-56, 5' (880-3946-3), S-57, 1' (880-3946-4), S-57, 3' (880-3946-5), S-57, 5' (880-3946-6), S-63, 1' (880-3946-7), S-63, 3' (880-3946-8), S-63, 5' (880-3946-9), S-64, 1' (880-3946-10), S-64, 3' (880-3946-11), S-64, 5' (880-3946-12), S-65, 1' (880-3946-13), S-65, 3' (880-3946-14), S-65, 5' (880-3946-15), S-66, 1' (880-3946-16), S-66, 3' (880-3946-17), S-66, 5' (880-3946-18), S-69, 1' (880-3946-19), S-69, 3' (880-3946-20), S-69, 5' (880-3946-21), S-68, 1' (880-3946-22), S-68, 3' (880-3946-23), S-68, 5' (880-3946-24), S-60, 1' (880-3946-25), S-60, 3' (880-3946-26), S-60, 5' (880-3946-27), S-61, 1' (880-3946-28), S-61, 3' (880-3946-29), S-61, 5' (880-3946-30), S-59, 1' (880-3946-31), S-59, 3' (880-3946-32), S-59, 5' (880-3946-33), S-58, 1' (880-3946-34), S-58, 3' (880-3946-35), S-58, 5' (880-3946-36), S-27, 1' (880-3946-37), S-27, 3' (880-3946-38), S-27, 5' (880-3946-39), S-26, 1' (880-3946-40), S-26, 3' (880-3946-41), S-26, 5' (880-3946-42), S-26, 10' (880-3946-43), S-25, 1' (880-3946-44), S-25, 3' (880-3946-45), S-25, 5' (880-3946-46), S-25, 9' (880-3946-47), S-24, 1' (880-3946-48), S-24, 3' (880-3946-49), S-24, 5' (880-3946-50), S-23, 1' (880-3946-51), S-23, 3' (880-3946-52), S-23, 5' (880-3946-53), S-23, 10' (880-3946-54), S-22, 1' (880-3946-55), S-22, 3' (880-3946-56), S-22, 5' (880-3946-57), S-22, 10' (880-3946-58), S-21, 1' (880-3946-59), S-21, 3' (880-3946-60), S-20, 1' (880-3946-61), S-20, 3' (880-3946-62), S-20, 5' (880-3946-63), S-20, 8' (880-3946-64), S-19, 1' (880-3946-65), S-19, 3' (880-3946-66), S-19, 5' (880-3946-67), S-19, 8' (880-3946-68), S-18, 1' (880-3946-69), S-18, 3' (880-3946-70), S-18, 5' (880-3946-71), S-18, 9' (880-3946-72), S-17, 1' (880-3946-73), S-17, 3' (880-3946-74), S-17, 5' (880-3946-75), S-21, 5' (880-3946-76), S-21, 10' (880-3946-77), S-17, 10' (880-3946-78), S-16, 1' (880-3946-79), S-16, 3' (880-3946-80), S-16, 5' (880-3946-81), S-16, 10' (880-3946-82), S-15, 1' (880-3946-83), S-15, 3' (880-3946-84), S-15, 5' (880-3946-85), S-15, 10' (880-3946-86), S-12, 1' (880-3946-87), S-12, 3' (880-3946-88), S-12, 5' (880-3946-89), S-12, 10' (880-3946-90), S-11, 1' (880-3946-91), S-11, 3' (880-3946-92), S-11, 5' (880-3946-93) and S-11, 9' (880-3946-94)

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-5124 and analytical batch 880-5146 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-58, 1' (880-3946-34). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-63, 1' (880-3946-7), (880-3947-A-12-A MS) and (880-3947-A-12-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-56, 1'

Date Collected: 07/07/21 07:53

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:36	07/14/21 22:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:36	07/14/21 22:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:36	07/14/21 22:24	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		07/13/21 16:36	07/14/21 22:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:36	07/14/21 22:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/13/21 16:36	07/14/21 22:24	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/13/21 16:36	07/14/21 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	07/13/21 16:36	07/14/21 22:24	1
1,4-Difluorobenzene (Surr)	77		70 - 130	07/13/21 16:36	07/14/21 22:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 12:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 12:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 12:07	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	07/15/21 11:08	07/17/21 12:07	1
o-Terphenyl (Surr)	120		70 - 130	07/15/21 11:08	07/17/21 12:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		5.00	mg/Kg			07/16/21 19:00	1

Client Sample ID: S-57, 1'

Date Collected: 07/07/21 08:33

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/14/21 22:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/14/21 22:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/14/21 22:50	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		07/13/21 16:36	07/14/21 22:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/14/21 22:50	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/13/21 16:36	07/14/21 22:50	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/13/21 16:36	07/14/21 22:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	07/13/21 16:36	07/14/21 22:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/13/21 16:36	07/14/21 22:50	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/15/21 11:08	07/17/21 13:09	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-57, 1'

Date Collected: 07/07/21 08:33

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-4

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/15/21 11:08	07/17/21 13:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/15/21 11:08	07/17/21 13:09	1
Total TPH	<49.8	U	49.8	mg/Kg		07/15/21 11:08	07/17/21 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			07/15/21 11:08	07/17/21 13:09	1
o-Terphenyl (Surr)	116		70 - 130			07/15/21 11:08	07/17/21 13:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.7		5.01	mg/Kg			07/16/21 22:25	1

Client Sample ID: S-63, 1'

Date Collected: 07/07/21 08:58

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:36	07/14/21 23:16	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:36	07/14/21 23:16	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:36	07/14/21 23:16	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		07/13/21 16:36	07/14/21 23:16	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:36	07/14/21 23:16	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/13/21 16:36	07/14/21 23:16	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/13/21 16:36	07/14/21 23:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	34	S1-	70 - 130			07/13/21 16:36	07/14/21 23:16	1
1,4-Difluorobenzene (Surr)	109		70 - 130			07/13/21 16:36	07/14/21 23:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 13:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 13:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 13:30	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 13:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			07/15/21 11:08	07/17/21 13:30	1
o-Terphenyl (Surr)	111		70 - 130			07/15/21 11:08	07/17/21 13:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	358		5.05	mg/Kg			07/16/21 22:41	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-64, 1'

Date Collected: 07/07/21 09:28

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/13/21 16:36	07/14/21 23:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/13/21 16:36	07/14/21 23:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/13/21 16:36	07/14/21 23:42	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		07/13/21 16:36	07/14/21 23:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/13/21 16:36	07/14/21 23:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/13/21 16:36	07/14/21 23:42	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/13/21 16:36	07/14/21 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/13/21 16:36	07/14/21 23:42	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/13/21 16:36	07/14/21 23:42	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 13:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 13:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 13:52	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	07/15/21 11:08	07/17/21 13:52	1
o-Terphenyl (Surr)	116		70 - 130	07/15/21 11:08	07/17/21 13:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.5		5.02	mg/Kg			07/16/21 23:08	1

Client Sample ID: S-65, 1'

Date Collected: 07/07/21 09:53

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/15/21 00:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/15/21 00:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/15/21 00:06	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		07/13/21 16:36	07/15/21 00:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/15/21 00:06	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/13/21 16:36	07/15/21 00:06	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/13/21 16:36	07/15/21 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/13/21 16:36	07/15/21 00:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/13/21 16:36	07/15/21 00:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/15/21 11:08	07/17/21 14:12	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-65, 1'

Date Collected: 07/07/21 09:53

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-13

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/15/21 11:08	07/17/21 14:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/15/21 11:08	07/17/21 14:12	1
Total TPH	<49.8	U	49.8	mg/Kg		07/15/21 11:08	07/17/21 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			07/15/21 11:08	07/17/21 14:12	1
o-Terphenyl (Surr)	117		70 - 130			07/15/21 11:08	07/17/21 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.14		5.00	mg/Kg			07/16/21 23:24	1

Client Sample ID: S-66, 1'

Date Collected: 07/07/21 10:13

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-16

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/15/21 00:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/15/21 00:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/15/21 00:31	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		07/13/21 16:36	07/15/21 00:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/15/21 00:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/13/21 16:36	07/15/21 00:31	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/13/21 16:36	07/15/21 00:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			07/13/21 16:36	07/15/21 00:31	1
1,4-Difluorobenzene (Surr)	88		70 - 130			07/13/21 16:36	07/15/21 00:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		07/15/21 11:08	07/17/21 14:33	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/15/21 11:08	07/17/21 14:33	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/15/21 11:08	07/17/21 14:33	1
Total TPH	<49.7	U	49.7	mg/Kg		07/15/21 11:08	07/17/21 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			07/15/21 11:08	07/17/21 14:33	1
o-Terphenyl (Surr)	120		70 - 130			07/15/21 11:08	07/17/21 14:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	788		5.02	mg/Kg			07/17/21 00:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-66, 3'

Date Collected: 07/07/21 10:14

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-17

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.9		5.00	mg/Kg			07/17/21 00:07	1

Client Sample ID: S-69,1'

Date Collected: 07/07/21 10:38

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/15/21 00:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/15/21 00:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/15/21 00:57	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		07/13/21 16:36	07/15/21 00:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/15/21 00:57	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/13/21 16:36	07/15/21 00:57	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/13/21 16:36	07/15/21 00:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/13/21 16:36	07/15/21 00:57	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/13/21 16:36	07/15/21 00:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 14:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 14:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 14:54	1
Total TPH	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	07/15/21 11:08	07/17/21 14:54	1
o-Terphenyl (Surr)	125		70 - 130	07/15/21 11:08	07/17/21 14:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.8		4.99	mg/Kg			07/17/21 00:18	1

Client Sample ID: S-68,1'

Date Collected: 07/07/21 11:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-22

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198	mg/Kg		07/13/21 16:43	07/15/21 04:57	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 04:57	1
Ethylbenzene	<0.00198	U F1	0.00198	mg/Kg		07/13/21 16:43	07/15/21 04:57	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		07/13/21 16:43	07/15/21 04:57	1
o-Xylene	<0.00198	U F1	0.00198	mg/Kg		07/13/21 16:43	07/15/21 04:57	1
Xylenes, Total	<0.00396	U F1	0.00396	mg/Kg		07/13/21 16:43	07/15/21 04:57	1
Total BTEX	<0.00396	U F1	0.00396	mg/Kg		07/13/21 16:43	07/15/21 04:57	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-68,1'

Date Collected: 07/07/21 11:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-22

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	07/13/21 16:43	07/15/21 04:57	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/13/21 16:43	07/15/21 04:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 15:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 15:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 15:15	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	07/15/21 11:08	07/17/21 15:15	1
o-Terphenyl (Surr)	121		70 - 130	07/15/21 11:08	07/17/21 15:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.3		5.03	mg/Kg			07/17/21 00:34	1

Client Sample ID: S-60, 1'

Date Collected: 07/07/21 12:23

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-25

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 05:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 05:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 05:17	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		07/13/21 16:43	07/15/21 05:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 05:17	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/13/21 16:43	07/15/21 05:17	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/13/21 16:43	07/15/21 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	07/13/21 16:43	07/15/21 05:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/13/21 16:43	07/15/21 05:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 15:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 15:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 15:36	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	07/15/21 11:08	07/17/21 15:36	1
o-Terphenyl (Surr)	127		70 - 130	07/15/21 11:08	07/17/21 15:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-60, 1'

Date Collected: 07/07/21 12:23

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-25

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1690		25.1	mg/Kg			07/17/21 13:35	5

Client Sample ID: S-60, 3'

Date Collected: 07/07/21 12:24

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-26

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.35		5.05	mg/Kg			07/17/21 01:44	1

Client Sample ID: S-61 1'

Date Collected: 07/07/21 12:43

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-28

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 05:38	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 05:38	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 05:38	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		07/13/21 16:43	07/15/21 05:38	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 05:38	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/13/21 16:43	07/15/21 05:38	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		07/13/21 16:43	07/15/21 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	07/13/21 16:43	07/15/21 05:38	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/13/21 16:43	07/15/21 05:38	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 15:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 15:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 15:57	1
Total TPH	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	07/15/21 11:08	07/17/21 15:57	1
o-Terphenyl (Surr)	125		70 - 130	07/15/21 11:08	07/17/21 15:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.3		4.99	mg/Kg			07/17/21 02:06	1

Client Sample ID: S-59,1'

Date Collected: 07/07/21 13:03

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-31

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 05:59	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-59,1'

Date Collected: 07/07/21 13:03

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-31

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 05:59	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 05:59	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		07/13/21 16:43	07/15/21 05:59	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 05:59	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/13/21 16:43	07/15/21 05:59	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		07/13/21 16:43	07/15/21 05:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	07/13/21 16:43	07/15/21 05:59	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/13/21 16:43	07/15/21 05:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 16:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 16:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 16:39	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	07/15/21 11:08	07/17/21 16:39	1
o-Terphenyl (Surr)	127		70 - 130	07/15/21 11:08	07/17/21 16:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6500		50.1	mg/Kg			07/17/21 02:22	10

Client Sample ID: S-59, 3'

Date Collected: 07/07/21 13:04

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-32

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		5.02	mg/Kg			07/17/21 02:28	1

Client Sample ID: S-59,5'

Date Collected: 07/07/21 13:05

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-33

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.7		4.98	mg/Kg			07/17/21 02:33	1

Client Sample ID: S-58, 1'

Date Collected: 07/07/21 13:23

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-34

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 06:19	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 06:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-58, 1'

Date Collected: 07/07/21 13:23

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-34

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 06:19	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		07/13/21 16:43	07/15/21 06:19	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 06:19	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/13/21 16:43	07/15/21 06:19	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		07/13/21 16:43	07/15/21 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	07/13/21 16:43	07/15/21 06:19	1
1,4-Difluorobenzene (Surr)	105		70 - 130	07/13/21 16:43	07/15/21 06:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 17:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 17:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 17:00	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	07/15/21 11:08	07/17/21 17:00	1
o-Terphenyl (Surr)	122		70 - 130	07/15/21 11:08	07/17/21 17:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		25.1	mg/Kg			07/17/21 02:49	5

Client Sample ID: S-58, 3'

Date Collected: 07/07/21 13:24

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-35

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2150		25.3	mg/Kg			07/17/21 02:54	5

Client Sample ID: S-58, 5'

Date Collected: 07/07/21 13:25

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-36

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.6		5.03	mg/Kg			07/17/21 03:11	1

Client Sample ID: S-27, 1'

Date Collected: 07/08/21 07:43

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-37

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 06:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 06:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 06:40	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-27, 1'

Date Collected: 07/08/21 07:43

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-37

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		07/13/21 16:43	07/15/21 06:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 06:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/13/21 16:43	07/15/21 06:40	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/13/21 16:43	07/15/21 06:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			07/13/21 16:43	07/15/21 06:40	1
1,4-Difluorobenzene (Surr)	106		70 - 130			07/13/21 16:43	07/15/21 06:40	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 17:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 17:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 17:21	1
Total TPH	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 17:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			07/15/21 11:08	07/17/21 17:21	1
o-Terphenyl (Surr)	121		70 - 130			07/15/21 11:08	07/17/21 17:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1490		25.2	mg/Kg			07/17/21 13:41	5

Client Sample ID: S-27, 3'

Date Collected: 07/08/21 07:44

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-38

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	521		4.99	mg/Kg			07/17/21 03:21	1

Client Sample ID: S-26,1'

Date Collected: 07/08/21 08:02

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-40

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/13/21 16:43	07/15/21 07:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/13/21 16:43	07/15/21 07:00	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/13/21 16:43	07/15/21 07:00	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		07/13/21 16:43	07/15/21 07:00	1
o-Xylene	0.00216		0.00201	mg/Kg		07/13/21 16:43	07/15/21 07:00	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/13/21 16:43	07/15/21 07:00	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/13/21 16:43	07/15/21 07:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			07/13/21 16:43	07/15/21 07:00	1
1,4-Difluorobenzene (Surr)	101		70 - 130			07/13/21 16:43	07/15/21 07:00	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-26,1'

Date Collected: 07/08/21 08:02

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-40

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 17:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 17:41	1
Total TPH	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			07/15/21 11:08	07/17/21 17:41	1
o-Terphenyl (Surr)	136	S1+	70 - 130			07/15/21 11:08	07/17/21 17:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1690		24.8	mg/Kg			07/17/21 03:32	5

Client Sample ID: S-26,3'

Date Collected: 07/08/21 08:03

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-41

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		5.02	mg/Kg			07/17/21 03:38	1

Client Sample ID: S-25,1'

Date Collected: 07/08/21 08:48

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-44

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 07:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 07:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 07:21	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		07/13/21 16:43	07/15/21 07:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 07:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/13/21 16:43	07/15/21 07:21	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/13/21 16:43	07/15/21 07:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			07/13/21 16:43	07/15/21 07:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130			07/13/21 16:43	07/15/21 07:21	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 18:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 18:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 18:02	1
Total TPH	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			07/15/21 11:08	07/17/21 18:02	1
o-Terphenyl (Surr)	126		70 - 130			07/15/21 11:08	07/17/21 18:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-25,1'

Date Collected: 07/08/21 08:48

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-44

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	947		4.99	mg/Kg			07/17/21 04:42	1

Client Sample ID: S-25,3'

Date Collected: 07/08/21 08:49

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-45

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.7		4.96	mg/Kg			07/17/21 04:48	1

Client Sample ID: S-24, 1'

Date Collected: 07/08/21 00:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-48

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 07:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 07:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 07:41	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		07/13/21 16:43	07/15/21 07:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 07:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/13/21 16:43	07/15/21 07:41	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/13/21 16:43	07/15/21 07:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	07/13/21 16:43	07/15/21 07:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/13/21 16:43	07/15/21 07:41	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 18:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 18:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 18:23	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	07/15/21 11:08	07/17/21 18:23	1
o-Terphenyl (Surr)	125		70 - 130	07/15/21 11:08	07/17/21 18:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		5.05	mg/Kg			07/17/21 05:15	1

Client Sample ID: S-23,1'

Date Collected: 07/08/21 00:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-51

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 08:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-23,1'

Date Collected: 07/08/21 00:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-51

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 08:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 08:02	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		07/13/21 16:43	07/15/21 08:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 08:02	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/13/21 16:43	07/15/21 08:02	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/13/21 16:43	07/15/21 08:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	07/13/21 16:43	07/15/21 08:02	1
1,4-Difluorobenzene (Surr)	104		70 - 130	07/13/21 16:43	07/15/21 08:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 19:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 19:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 19:56	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	07/14/21 16:17	07/15/21 19:56	1
o-Terphenyl (Surr)	122		70 - 130	07/14/21 16:17	07/15/21 19:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1320		5.00	mg/Kg			07/17/21 05:31	1

Client Sample ID: S-23, 3'

Date Collected: 07/08/21 00:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-52

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1810		24.9	mg/Kg			07/17/21 05:36	5

Client Sample ID: S-23, 5'

Date Collected: 07/08/21 00:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-53

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	974		4.95	mg/Kg			07/17/21 05:41	1

Client Sample ID: S-23,10'

Date Collected: 07/08/21 00:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-54

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	655		5.01	mg/Kg			07/17/21 05:58	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-22,1'

Lab Sample ID: 880-3946-55

Date Collected: 07/08/21 00:00

Matrix: Solid

Date Received: 07/13/21 10:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 09:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 09:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 09:25	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/13/21 16:43	07/15/21 09:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 09:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/13/21 16:43	07/15/21 09:25	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/13/21 16:43	07/15/21 09:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/13/21 16:43	07/15/21 09:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/13/21 16:43	07/15/21 09:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 20:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 20:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 20:17	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	07/14/21 16:17	07/15/21 20:17	1
o-Terphenyl (Surr)	127		70 - 130	07/14/21 16:17	07/15/21 20:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1470		5.04	mg/Kg			07/17/21 06:03	1

Client Sample ID: S-22,3'

Lab Sample ID: 880-3946-56

Date Collected: 07/08/21 00:00

Matrix: Solid

Date Received: 07/13/21 10:36

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	572		5.03	mg/Kg			07/17/21 06:19	1

Client Sample ID: S-21, 1'

Lab Sample ID: 880-3946-59

Date Collected: 07/08/21 00:00

Matrix: Solid

Date Received: 07/13/21 10:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 09:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 09:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 09:45	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/13/21 16:43	07/15/21 09:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 09:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/13/21 16:43	07/15/21 09:45	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/13/21 16:43	07/15/21 09:45	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-21, 1'

Date Collected: 07/08/21 00:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-59

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	07/13/21 16:43	07/15/21 09:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/13/21 16:43	07/15/21 09:45	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/14/21 16:17	07/15/21 20:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/14/21 16:17	07/15/21 20:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/14/21 16:17	07/15/21 20:37	1
Total TPH	<49.9	U	49.9	mg/Kg		07/14/21 16:17	07/15/21 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130	07/14/21 16:17	07/15/21 20:37	1
o-Terphenyl (Surr)	70		70 - 130	07/14/21 16:17	07/15/21 20:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1490		4.97	mg/Kg			07/17/21 06:35	1

Client Sample ID: S-21,3'

Date Collected: 07/08/21 00:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-60

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	919		4.95	mg/Kg			07/17/21 06:41	1

Client Sample ID: S-20,1'

Date Collected: 07/08/21 13:35

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-61

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/13/21 16:43	07/15/21 10:06	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/13/21 16:43	07/15/21 10:06	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/13/21 16:43	07/15/21 10:06	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		07/13/21 16:43	07/15/21 10:06	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/13/21 16:43	07/15/21 10:06	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/13/21 16:43	07/15/21 10:06	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/13/21 16:43	07/15/21 10:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	07/13/21 16:43	07/15/21 10:06	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/13/21 16:43	07/15/21 10:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/14/21 16:17	07/15/21 20:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/14/21 16:17	07/15/21 20:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/14/21 16:17	07/15/21 20:58	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-20,1'

Date Collected: 07/08/21 13:35

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-61

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg		07/14/21 16:17	07/15/21 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	07/14/21 16:17	07/15/21 20:58	1
o-Terphenyl (Surr)	122		70 - 130	07/14/21 16:17	07/15/21 20:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1770		25.0	mg/Kg			07/17/21 06:46	5

Client Sample ID: S-20,3'

Date Collected: 07/08/21 13:36

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-62

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		4.98	mg/Kg			07/17/21 06:51	1

Client Sample ID: S-20,5'

Date Collected: 07/08/21 13:37

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-63

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		5.04	mg/Kg			07/16/21 19:52	1

Client Sample ID: S-20,8'

Date Collected: 07/08/21 13:38

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-64

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		4.99	mg/Kg			07/16/21 20:09	1

Client Sample ID: S-19,1'

Date Collected: 07/08/21 13:57

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-65

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00343		0.00199	mg/Kg		07/13/21 16:43	07/15/21 10:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 10:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 10:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		07/13/21 16:43	07/15/21 10:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 10:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/13/21 16:43	07/15/21 10:27	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/13/21 16:43	07/15/21 10:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	07/13/21 16:43	07/15/21 10:27	1
1,4-Difluorobenzene (Surr)	120		70 - 130	07/13/21 16:43	07/15/21 10:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-19,1'

Lab Sample ID: 880-3946-65

Date Collected: 07/08/21 13:57

Matrix: Solid

Date Received: 07/13/21 10:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 21:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 21:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 21:19	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	07/14/21 16:17	07/15/21 21:19	1
o-Terphenyl (Surr)	116		70 - 130	07/14/21 16:17	07/15/21 21:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2310		24.8	mg/Kg			07/16/21 20:14	5

Client Sample ID: S-19,3'

Lab Sample ID: 880-3946-66

Date Collected: 07/08/21 13:58

Matrix: Solid

Date Received: 07/13/21 10:36

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		24.8	mg/Kg			07/19/21 10:42	5

Client Sample ID: S-19,5'

Lab Sample ID: 880-3946-67

Date Collected: 07/08/21 13:59

Matrix: Solid

Date Received: 07/13/21 10:36

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	415		4.99	mg/Kg			07/16/21 20:25	1

Client Sample ID: S-18,1'

Lab Sample ID: 880-3946-69

Date Collected: 07/09/21 07:37

Matrix: Solid

Date Received: 07/13/21 10:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 10:47	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 10:47	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 10:47	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		07/13/21 16:43	07/15/21 10:47	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/13/21 16:43	07/15/21 10:47	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/13/21 16:43	07/15/21 10:47	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		07/13/21 16:43	07/15/21 10:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	07/13/21 16:43	07/15/21 10:47	1
1,4-Difluorobenzene (Surr)	113		70 - 130	07/13/21 16:43	07/15/21 10:47	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 18:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-18,1'

Lab Sample ID: 880-3946-69

Date Collected: 07/09/21 07:37

Matrix: Solid

Date Received: 07/13/21 10:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 18:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 18:44	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 18:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			07/15/21 11:08	07/17/21 18:44	1
o-Terphenyl (Surr)	131	S1+	70 - 130			07/15/21 11:08	07/17/21 18:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	535		5.02	mg/Kg			07/16/21 11:51	1

Client Sample ID: S-17,1'

Lab Sample ID: 880-3946-73

Date Collected: 07/09/21 08:07

Matrix: Solid

Date Received: 07/13/21 10:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 11:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 11:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 11:08	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		07/13/21 16:43	07/15/21 11:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/13/21 16:43	07/15/21 11:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/13/21 16:43	07/15/21 11:08	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/13/21 16:43	07/15/21 11:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			07/13/21 16:43	07/15/21 11:08	1
1,4-Difluorobenzene (Surr)	101		70 - 130			07/13/21 16:43	07/15/21 11:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 19:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 19:05	1
Total TPH	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			07/15/21 11:08	07/17/21 19:05	1
o-Terphenyl (Surr)	135	S1+	70 - 130			07/15/21 11:08	07/17/21 19:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		5.03	mg/Kg			07/16/21 13:28	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-21,5'

Date Collected: 07/08/21 12:34

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-76

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	950		4.98	mg/Kg			07/16/21 13:44	1

Client Sample ID: S-21,10'

Date Collected: 07/08/21 12:18

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-77

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1210		5.01	mg/Kg			07/16/21 19:22	1

Client Sample ID: S-16,1'

Date Collected: 07/09/21 08:35

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-79

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 11:29	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 11:29	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 11:29	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		07/13/21 16:43	07/15/21 11:29	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 11:29	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/13/21 16:43	07/15/21 11:29	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		07/13/21 16:43	07/15/21 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/13/21 16:43	07/15/21 11:29	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/13/21 16:43	07/15/21 11:29	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 19:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 19:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 19:26	1
Total TPH	<49.9	U	49.9	mg/Kg		07/15/21 11:08	07/17/21 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	07/15/21 11:08	07/17/21 19:26	1
o-Terphenyl (Surr)	129		70 - 130	07/15/21 11:08	07/17/21 19:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.4		5.02	mg/Kg			07/16/21 19:32	1

Client Sample ID: S-15,1'

Date Collected: 07/09/21 08:57

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-83

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 11:49	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-15,1'

Date Collected: 07/09/21 08:57

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-83

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 11:49	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 11:49	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		07/13/21 16:43	07/15/21 11:49	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 11:49	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/13/21 16:43	07/15/21 11:49	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/13/21 16:43	07/15/21 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/13/21 16:43	07/15/21 11:49	1
1,4-Difluorobenzene (Surr)	113		70 - 130	07/13/21 16:43	07/15/21 11:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 19:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 19:47	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	07/15/21 11:08	07/17/21 19:47	1
o-Terphenyl (Surr)	124		70 - 130	07/15/21 11:08	07/17/21 19:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	889		5.04	mg/Kg			07/16/21 20:05	1

Client Sample ID: S-15, 3'

Date Collected: 07/09/21 08:58

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-84

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	288		4.96	mg/Kg			07/16/21 20:10	1

Client Sample ID: S-12,1'

Date Collected: 07/09/21 09:37

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-87

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 12:10	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 12:10	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 12:10	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		07/13/21 16:43	07/15/21 12:10	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/13/21 16:43	07/15/21 12:10	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/13/21 16:43	07/15/21 12:10	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		07/13/21 16:43	07/15/21 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	07/13/21 16:43	07/15/21 12:10	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-12,1'

Date Collected: 07/09/21 09:37

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-87

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	07/13/21 16:43	07/15/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/15/21 11:27	07/18/21 02:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/15/21 11:27	07/18/21 02:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/15/21 11:27	07/18/21 02:42	1
Total TPH	<49.9	U	49.9	mg/Kg		07/15/21 11:27	07/18/21 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	07/15/21 11:27	07/18/21 02:42	1
o-Terphenyl (Surr)	111		70 - 130	07/15/21 11:27	07/18/21 02:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		4.98	mg/Kg			07/16/21 20:37	1

Client Sample ID: S-11,1'

Date Collected: 07/09/21 10:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-91

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 12:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 12:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 12:31	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		07/13/21 16:43	07/15/21 12:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 12:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/13/21 16:43	07/15/21 12:31	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/13/21 16:43	07/15/21 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	07/13/21 16:43	07/15/21 12:31	1
1,4-Difluorobenzene (Surr)	106		70 - 130	07/13/21 16:43	07/15/21 12:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/15/21 11:27	07/18/21 03:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/15/21 11:27	07/18/21 03:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/15/21 11:27	07/18/21 03:02	1
Total TPH	<49.9	U	49.9	mg/Kg		07/15/21 11:27	07/18/21 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	07/15/21 11:27	07/18/21 03:02	1
o-Terphenyl (Surr)	120		70 - 130	07/15/21 11:27	07/18/21 03:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-11,1'
Date Collected: 07/09/21 10:00
Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-91
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.3		5.02	mg/Kg			07/16/21 21:09	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-3946-1	S-56, 1'	95	77
880-3946-4	S-57, 1'	85	100
880-3946-7	S-63, 1'	34 S1-	109
880-3946-10	S-64, 1'	111	103
880-3946-13	S-65, 1'	99	94
880-3946-16	S-66, 1'	97	88
880-3946-19	S-69, 1'	99	94
880-3946-22	S-68, 1'	101	89
880-3946-22 MS	S-68, 1'	100	101
880-3946-22 MSD	S-68, 1'	107	92
880-3946-25	S-60, 1'	102	94
880-3946-28	S-61, 1'	120	99
880-3946-31	S-59, 1'	102	94
880-3946-34	S-58, 1'	135 S1+	105
880-3946-37	S-27, 1'	119	106
880-3946-40	S-26, 1'	122	101
880-3946-44	S-25, 1'	126	99
880-3946-48	S-24, 1'	128	93
880-3946-51	S-23, 1'	123	104
880-3946-55	S-22, 1'	110	100
880-3946-59	S-21, 1'	109	98
880-3946-61	S-20, 1'	114	91
880-3946-65	S-19, 1'	118	120
880-3946-69	S-18, 1'	120	113
880-3946-73	S-17, 1'	114	101
880-3946-79	S-16, 1'	104	91
880-3946-83	S-15, 1'	115	113
880-3946-87	S-12, 1'	125	102
880-3946-91	S-11, 1'	116	106
880-3947-A-12-A MS	Matrix Spike	98	119
880-3947-A-12-B MSD	Matrix Spike Duplicate	242 S1+	79
LCS 880-5122/1-A	Lab Control Sample	107	108
LCS 880-5124/1-A	Lab Control Sample	98	94
LCSD 880-5122/2-A	Lab Control Sample Dup	90	93
LCSD 880-5124/2-A	Lab Control Sample Dup	107	97
MB 880-5122/5-A	Method Blank	68 S1-	85
MB 880-5124/5-A	Method Blank	124	90
MB 880-5141/5-A	Method Blank	107	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-3887-A-1-E MS	Matrix Spike	98	99

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-3946-1

Project/Site: Palmio AST

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-3887-A-1-F MSD	Matrix Spike Duplicate	103	98
880-3946-1	S-56, 1'	104	120
880-3946-1 MS	S-56, 1'	108	107
880-3946-1 MSD	S-56, 1'	104	103
880-3946-4	S-57, 1'	104	116
880-3946-7	S-63, 1'	98	111
880-3946-10	S-64, 1'	103	116
880-3946-13	S-65, 1'	102	117
880-3946-16	S-66, 1'	104	120
880-3946-19	S-69, 1'	107	125
880-3946-22	S-68, 1'	106	121
880-3946-25	S-60, 1'	106	127
880-3946-28	S-61, 1'	105	125
880-3946-31	S-59, 1'	111	127
880-3946-34	S-58, 1'	105	122
880-3946-37	S-27, 1'	101	121
880-3946-40	S-26, 1'	114	136 S1+
880-3946-44	S-25, 1'	108	126
880-3946-48	S-24, 1'	106	125
880-3946-51	S-23, 1'	106	122
880-3946-55	S-22, 1'	107	127
880-3946-59	S-21, 1'	109	70
880-3946-61	S-20, 1'	102	122
880-3946-65	S-19, 1'	103	116
880-3946-69	S-18, 1'	114	131 S1+
880-3946-73	S-17, 1'	113	135 S1+
880-3946-79	S-16, 1'	108	129
880-3946-83	S-15, 1'	105	124
880-3946-87	S-12, 1'	98	111
880-3946-91	S-11, 1'	102	120
890-940-A-41-F MS	Matrix Spike	99	100
890-940-A-41-G MSD	Matrix Spike Duplicate	101	106
LCS 880-5199/2-A	Lab Control Sample	100	107
LCS 880-5218/2-A	Lab Control Sample	100	104
LCS 880-5219/2-A	Lab Control Sample	98	107
LCSD 880-5199/3-A	Lab Control Sample Dup	103	114
LCSD 880-5218/3-A	Lab Control Sample Dup	99	105
LCSD 880-5219/3-A	Lab Control Sample Dup	102	107
MB 880-5199/1-A	Method Blank	92	108
MB 880-5218/1-A	Method Blank	96	112
MB 880-5219/1-A	Method Blank	94	110

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5122/5-A

Matrix: Solid

Analysis Batch: 5144

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5122

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/14/21 15:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/14/21 15:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/14/21 15:14	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/13/21 16:36	07/14/21 15:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:36	07/14/21 15:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/13/21 16:36	07/14/21 15:14	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/13/21 16:36	07/14/21 15:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	07/13/21 16:36	07/14/21 15:14	1
1,4-Difluorobenzene (Surr)	85		70 - 130	07/13/21 16:36	07/14/21 15:14	1

Lab Sample ID: LCS 880-5122/1-A

Matrix: Solid

Analysis Batch: 5144

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1050		mg/Kg		105	70 - 130
Toluene	0.100	0.1165		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1195		mg/Kg		119	70 - 130
m,p-Xylenes	0.200	0.2097		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-5122/2-A

Matrix: Solid

Analysis Batch: 5144

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5122

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08684		mg/Kg		87	70 - 130	19	35
Toluene	0.100	0.09629		mg/Kg		96	70 - 130	19	35
Ethylbenzene	0.100	0.1001		mg/Kg		100	70 - 130	18	35
m,p-Xylenes	0.200	0.1764		mg/Kg		88	70 - 130	17	35
o-Xylene	0.100	0.08926		mg/Kg		89	70 - 130	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-3947-A-12-A MS

Matrix: Solid

Analysis Batch: 5144

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 5122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.100	0.07928		mg/Kg		79	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-3947-A-12-A MS

Matrix: Solid

Analysis Batch: 5144

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 5122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00200	U	0.100	0.08705		mg/Kg		87	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09440		mg/Kg		94	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.1664		mg/Kg		83	70 - 130
o-Xylene	<0.00200	U	0.100	0.08494		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: 880-3947-A-12-B MSD

Matrix: Solid

Analysis Batch: 5144

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 5122

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.09214		mg/Kg		93	70 - 130	15	35
Toluene	<0.00200	U	0.0994	0.09738		mg/Kg		98	70 - 130	11	35
Ethylbenzene	<0.00200	U	0.0994	0.1059		mg/Kg		107	70 - 130	12	35
m,p-Xylenes	<0.00399	U	0.199	0.1908		mg/Kg		96	70 - 130	14	35
o-Xylene	<0.00200	U	0.0994	0.09575		mg/Kg		96	70 - 130	12	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	242	S1+	70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: MB 880-5124/5-A

Matrix: Solid

Analysis Batch: 5146

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5124

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 04:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 04:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 04:35	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/13/21 16:43	07/15/21 04:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 16:43	07/15/21 04:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/13/21 16:43	07/15/21 04:35	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/13/21 16:43	07/15/21 04:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	07/13/21 16:43	07/15/21 04:35	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/13/21 16:43	07/15/21 04:35	1

Lab Sample ID: LCS 880-5124/1-A

Matrix: Solid

Analysis Batch: 5146

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08743		mg/Kg		87	70 - 130
Toluene	0.100	0.09054		mg/Kg		91	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-5124/1-A

Matrix: Solid

Analysis Batch: 5146

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.08894		mg/Kg		89	70 - 130
m,p-Xylenes	0.200	0.1793		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08895		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-5124/2-A

Matrix: Solid

Analysis Batch: 5146

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5124

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08477		mg/Kg		85	70 - 130	3	35
Toluene	0.100	0.09578		mg/Kg		96	70 - 130	6	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	12	35
m,p-Xylenes	0.200	0.2004		mg/Kg		100	70 - 130	11	35
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-3946-22 MS

Matrix: Solid

Analysis Batch: 5146

Client Sample ID: S-68,1'

Prep Type: Total/NA

Prep Batch: 5124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.100	0.06682	F1	mg/Kg		65	70 - 130
Toluene	<0.00198	U	0.100	0.07010		mg/Kg		70	70 - 130
Ethylbenzene	<0.00198	U F1	0.100	0.06794	F1	mg/Kg		68	70 - 130
m,p-Xylenes	<0.00396	U	0.201	0.1400		mg/Kg		70	70 - 130
o-Xylene	<0.00198	U F1	0.100	0.06760	F1	mg/Kg		67	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-3946-22 MSD

Matrix: Solid

Analysis Batch: 5146

Client Sample ID: S-68,1'

Prep Type: Total/NA

Prep Batch: 5124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00198	U F1	0.100	0.07989		mg/Kg		78	70 - 130	18	35
Toluene	<0.00198	U	0.100	0.08080		mg/Kg		80	70 - 130	14	35
Ethylbenzene	<0.00198	U F1	0.100	0.07771		mg/Kg		77	70 - 130	13	35
m,p-Xylenes	<0.00396	U	0.201	0.1659		mg/Kg		83	70 - 130	17	35
o-Xylene	<0.00198	U F1	0.100	0.07761		mg/Kg		77	70 - 130	14	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-5141/5-A
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5141

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:16	07/14/21 17:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:16	07/14/21 17:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:16	07/14/21 17:36	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/14/21 09:16	07/14/21 17:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:16	07/14/21 17:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/21 09:16	07/14/21 17:36	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/14/21 09:16	07/14/21 17:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/14/21 09:16	07/14/21 17:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/14/21 09:16	07/14/21 17:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-5199/1-A
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5199

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 12:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 12:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 12:23	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 16:17	07/15/21 12:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	07/14/21 16:17	07/15/21 12:23	1
o-Terphenyl (Surr)	108		70 - 130	07/14/21 16:17	07/15/21 12:23	1

Lab Sample ID: LCS 880-5199/2-A
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	768.2		mg/Kg		77	70 - 130
Diesel Range Organics (Over C10-C28)	1000	906.9		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	107		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-5199/3-A

Matrix: Solid

Analysis Batch: 5214

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	770.2		mg/Kg		77	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	941.3		mg/Kg		94	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	103		70 - 130						
o-Terphenyl (Surr)	114		70 - 130						

Lab Sample ID: 890-940-A-41-F MS

Matrix: Solid

Analysis Batch: 5214

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 5199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	903.3		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1104		mg/Kg		111	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	99		70 - 130								
o-Terphenyl (Surr)	100		70 - 130								

Lab Sample ID: 890-940-A-41-G MSD

Matrix: Solid

Analysis Batch: 5214

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 5199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	924.0		mg/Kg		93	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1156		mg/Kg		116	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	101		70 - 130								
o-Terphenyl (Surr)	106		70 - 130								

Lab Sample ID: MB 880-5218/1-A

Matrix: Solid

Analysis Batch: 5323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5218

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 11:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 11:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 11:04	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 11:08	07/17/21 11:04	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-5218/1-A

Matrix: Solid

Analysis Batch: 5323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5218

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane (Surr)	96		70 - 130	07/15/21 11:08	07/17/21 11:04	1				
o-Terphenyl (Surr)	112		70 - 130	07/15/21 11:08	07/17/21 11:04	1				

Lab Sample ID: LCS 880-5218/2-A

Matrix: Solid

Analysis Batch: 5323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5218

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	880.8		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	995.7		mg/Kg		100	70 - 130		

Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	100		70 - 130								
o-Terphenyl (Surr)	104		70 - 130								

Lab Sample ID: LCSD 880-5218/3-A

Matrix: Solid

Analysis Batch: 5323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5218

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	827.4		mg/Kg		83	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1011		mg/Kg		101	70 - 130	2	20

Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	99		70 - 130								
o-Terphenyl (Surr)	105		70 - 130								

Lab Sample ID: 880-3946-1 MS

Matrix: Solid

Analysis Batch: 5323

Client Sample ID: S-56, 1'

Prep Type: Total/NA

Prep Batch: 5218

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	975.3		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1221		mg/Kg		123	70 - 130		

Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	108		70 - 130								
o-Terphenyl (Surr)	107		70 - 130								

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-3946-1 MSD

Matrix: Solid

Analysis Batch: 5323

Client Sample ID: S-56, 1'

Prep Type: Total/NA

Prep Batch: 5218

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	1112		mg/Kg		112	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1201		mg/Kg		121	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	104		70 - 130								
o-Terphenyl (Surr)	103		70 - 130								

Lab Sample ID: MB 880-5219/1-A

Matrix: Solid

Analysis Batch: 5323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5219

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 11:27	07/17/21 20:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 11:27	07/17/21 20:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 11:27	07/17/21 20:29	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 11:27	07/17/21 20:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			07/15/21 11:27	07/17/21 20:29	1
o-Terphenyl (Surr)	110		70 - 130			07/15/21 11:27	07/17/21 20:29	1

Lab Sample ID: LCS 880-5219/2-A

Matrix: Solid

Analysis Batch: 5323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	811.7		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1003		mg/Kg		100	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	98		70 - 130						
o-Terphenyl (Surr)	107		70 - 130						

Lab Sample ID: LCSD 880-5219/3-A

Matrix: Solid

Analysis Batch: 5323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5219

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	885.6		mg/Kg		89	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	999.9		mg/Kg		100	70 - 130	0	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-5219/3-A

Matrix: Solid

Analysis Batch: 5323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5219

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	107		70 - 130

Lab Sample ID: 880-3887-A-1-E MS

Matrix: Solid

Analysis Batch: 5323

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 5219

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	955.5		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1131		mg/Kg		114	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	98		70 - 130						
o-Terphenyl (Surr)	99		70 - 130						

Lab Sample ID: 880-3887-A-1-F MSD

Matrix: Solid

Analysis Batch: 5323

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 5219

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	1029		mg/Kg		103	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1134		mg/Kg		114	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	103		70 - 130								
o-Terphenyl (Surr)	98		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5150/1-A

Matrix: Solid

Analysis Batch: 5267

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/16/21 11:03	1

Lab Sample ID: LCS 880-5150/2-A

Matrix: Solid

Analysis Batch: 5267

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	257.8		mg/Kg		103	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-5150/3-A

Matrix: Solid

Analysis Batch: 5267

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.6		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-3920-A-2-B MS

Matrix: Solid

Analysis Batch: 5267

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2040		2520	4711		mg/Kg		106	90 - 110		

Lab Sample ID: 880-3920-A-2-C MSD

Matrix: Solid

Analysis Batch: 5267

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2040		2520	4717		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-3935-A-1-B MS

Matrix: Solid

Analysis Batch: 5267

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7580	F1	4980	13850	F1	mg/Kg		126	90 - 110		

Lab Sample ID: 880-3935-A-1-C MSD

Matrix: Solid

Analysis Batch: 5267

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7580	F1	4980	13850	F1	mg/Kg		126	90 - 110	0	20

Lab Sample ID: MB 880-5151/1-A

Matrix: Solid

Analysis Batch: 5314

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/16/21 18:44	1

Lab Sample ID: LCS 880-5151/2-A

Matrix: Solid

Analysis Batch: 5314

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.5		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-5151/3-A

Matrix: Solid

Analysis Batch: 5314

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	252	261.8		mg/Kg		104	90 - 110	1	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-3946-1 MS

Matrix: Solid

Analysis Batch: 5314

Client Sample ID: S-56, 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	168		250	408.6		mg/Kg		96	90 - 110

Lab Sample ID: 880-3946-1 MSD

Matrix: Solid

Analysis Batch: 5314

Client Sample ID: S-56, 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	168		250	408.5		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-3946-A-85-B MS

Matrix: Solid

Analysis Batch: 5314

Client Sample ID: 880-3946-A-85-B MS

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	365		249	596.5		mg/Kg		93	90 - 110

Lab Sample ID: 880-3946-A-85-C MSD

Matrix: Solid

Analysis Batch: 5314

Client Sample ID: 880-3946-A-85-C MSD

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	365		249	597.0		mg/Kg		93	90 - 110	0	20

Lab Sample ID: MB 880-5153/1-A

Matrix: Solid

Analysis Batch: 5315

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/17/21 01:01	1

Lab Sample ID: LCS 880-5153/2-A

Matrix: Solid

Analysis Batch: 5315

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	263.0		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-5153/3-A

Matrix: Solid

Analysis Batch: 5315

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	263.0		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-3946-33 MS

Matrix: Solid

Analysis Batch: 5315

Client Sample ID: S-59,5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15.7		249	250.4		mg/Kg		94	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-3946-33 MSD

Matrix: Solid

Analysis Batch: 5315

Client Sample ID: S-59,5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15.7		249	250.0		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-3946-A-23-B MS

Matrix: Solid

Analysis Batch: 5315

Client Sample ID: 880-3946-A-23-B MS

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	16.6		249	290.2		mg/Kg		110	90 - 110		

Lab Sample ID: 880-3946-A-23-C MSD

Matrix: Solid

Analysis Batch: 5315

Client Sample ID: 880-3946-A-23-C MSD

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	16.6		249	290.1		mg/Kg		110	90 - 110	0	20

Lab Sample ID: MB 880-5154/1-A

Matrix: Solid

Analysis Batch: 5316

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/17/21 04:10	1

Lab Sample ID: LCS 880-5154/2-A

Matrix: Solid

Analysis Batch: 5316

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	263.6		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-5154/3-A

Matrix: Solid

Analysis Batch: 5316

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	263.9		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-3946-53 MS

Matrix: Solid

Analysis Batch: 5316

Client Sample ID: S-23, 5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	974		248	1200		mg/Kg		91	90 - 110		

Lab Sample ID: 880-3946-53 MSD

Matrix: Solid

Analysis Batch: 5316

Client Sample ID: S-23, 5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	974		248	1199		mg/Kg		91	90 - 110	0	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-3946-A-43-B MS

Matrix: Solid

Analysis Batch: 5316

Client Sample ID: 880-3946-A-43-B MS

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	185		252	461.9		mg/Kg		110	90 - 110

Lab Sample ID: 880-3946-A-43-C MSD

Matrix: Solid

Analysis Batch: 5316

Client Sample ID: 880-3946-A-43-C MSD

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	185		252	462.0		mg/Kg		110	90 - 110	0	20

Lab Sample ID: MB 880-5155/1-A

Matrix: Solid

Analysis Batch: 5317

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/16/21 19:36	1

Lab Sample ID: LCS 880-5155/2-A

Matrix: Solid

Analysis Batch: 5317

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	262.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-5155/3-A

Matrix: Solid

Analysis Batch: 5317

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	263.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-3946-63 MS

Matrix: Solid

Analysis Batch: 5317

Client Sample ID: S-20,5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1200		252	1371	4	mg/Kg		67	90 - 110

Lab Sample ID: 880-3946-63 MSD

Matrix: Solid

Analysis Batch: 5317

Client Sample ID: S-20,5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1200		252	1373	4	mg/Kg		67	90 - 110	0	20

Lab Sample ID: MB 880-5152/1-A

Matrix: Solid

Analysis Batch: 5319

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/16/21 21:53	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-5152/2-A

Matrix: Solid

Analysis Batch: 5319

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	260.4		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-5152/3-A

Matrix: Solid

Analysis Batch: 5319

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	260.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-3946-13 MS

Matrix: Solid

Analysis Batch: 5319

Client Sample ID: S-65, 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.14		250	234.5		mg/Kg		91	90 - 110

Lab Sample ID: 880-3946-13 MSD

Matrix: Solid

Analysis Batch: 5319

Client Sample ID: S-65, 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.14		250	234.6		mg/Kg		91	90 - 110	0	20

Lab Sample ID: 880-3946-A-3-B MS

Matrix: Solid

Analysis Batch: 5319

Client Sample ID: 880-3946-A-3-B MS

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	45.4		250	294.3		mg/Kg		100	90 - 110

Lab Sample ID: 880-3946-A-3-C MSD

Matrix: Solid

Analysis Batch: 5319

Client Sample ID: 880-3946-A-3-C MSD

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	45.4		250	294.6		mg/Kg		100	90 - 110	0	20

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

GC VOA

Prep Batch: 5122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-1	S-56, 1'	Total/NA	Solid	5035	
880-3946-4	S-57, 1'	Total/NA	Solid	5035	
880-3946-7	S-63, 1'	Total/NA	Solid	5035	
880-3946-10	S-64, 1'	Total/NA	Solid	5035	
880-3946-13	S-65, 1'	Total/NA	Solid	5035	
880-3946-16	S-66, 1'	Total/NA	Solid	5035	
880-3946-19	S-69, 1'	Total/NA	Solid	5035	
MB 880-5122/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5122/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5122/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-3947-A-12-A MS	Matrix Spike	Total/NA	Solid	5035	
880-3947-A-12-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 5124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-22	S-68, 1'	Total/NA	Solid	5035	
880-3946-25	S-60, 1'	Total/NA	Solid	5035	
880-3946-28	S-61, 1'	Total/NA	Solid	5035	
880-3946-31	S-59, 1'	Total/NA	Solid	5035	
880-3946-34	S-58, 1'	Total/NA	Solid	5035	
880-3946-37	S-27, 1'	Total/NA	Solid	5035	
880-3946-40	S-26, 1'	Total/NA	Solid	5035	
880-3946-44	S-25, 1'	Total/NA	Solid	5035	
880-3946-48	S-24, 1'	Total/NA	Solid	5035	
880-3946-51	S-23, 1'	Total/NA	Solid	5035	
880-3946-55	S-22, 1'	Total/NA	Solid	5035	
880-3946-59	S-21, 1'	Total/NA	Solid	5035	
880-3946-61	S-20, 1'	Total/NA	Solid	5035	
880-3946-65	S-19, 1'	Total/NA	Solid	5035	
880-3946-69	S-18, 1'	Total/NA	Solid	5035	
880-3946-73	S-17, 1'	Total/NA	Solid	5035	
880-3946-79	S-16, 1'	Total/NA	Solid	5035	
880-3946-83	S-15, 1'	Total/NA	Solid	5035	
880-3946-87	S-12, 1'	Total/NA	Solid	5035	
880-3946-91	S-11, 1'	Total/NA	Solid	5035	
MB 880-5124/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5124/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5124/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-3946-22 MS	S-68, 1'	Total/NA	Solid	5035	
880-3946-22 MSD	S-68, 1'	Total/NA	Solid	5035	

Prep Batch: 5141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5141/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 5144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-1	S-56, 1'	Total/NA	Solid	8021B	5122
880-3946-4	S-57, 1'	Total/NA	Solid	8021B	5122
880-3946-7	S-63, 1'	Total/NA	Solid	8021B	5122
880-3946-10	S-64, 1'	Total/NA	Solid	8021B	5122

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

GC VOA (Continued)

Analysis Batch: 5144 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-13	S-65, 1'	Total/NA	Solid	8021B	5122
880-3946-16	S-66, 1'	Total/NA	Solid	8021B	5122
880-3946-19	S-69, 1'	Total/NA	Solid	8021B	5122
MB 880-5122/5-A	Method Blank	Total/NA	Solid	8021B	5122
LCS 880-5122/1-A	Lab Control Sample	Total/NA	Solid	8021B	5122
LCSD 880-5122/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5122
880-3947-A-12-A MS	Matrix Spike	Total/NA	Solid	8021B	5122
880-3947-A-12-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	5122

Analysis Batch: 5146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-22	S-68, 1'	Total/NA	Solid	8021B	5124
880-3946-25	S-60, 1'	Total/NA	Solid	8021B	5124
880-3946-28	S-61, 1'	Total/NA	Solid	8021B	5124
880-3946-31	S-59, 1'	Total/NA	Solid	8021B	5124
880-3946-34	S-58, 1'	Total/NA	Solid	8021B	5124
880-3946-37	S-27, 1'	Total/NA	Solid	8021B	5124
880-3946-40	S-26, 1'	Total/NA	Solid	8021B	5124
880-3946-44	S-25, 1'	Total/NA	Solid	8021B	5124
880-3946-48	S-24, 1'	Total/NA	Solid	8021B	5124
880-3946-51	S-23, 1'	Total/NA	Solid	8021B	5124
880-3946-55	S-22, 1'	Total/NA	Solid	8021B	5124
880-3946-59	S-21, 1'	Total/NA	Solid	8021B	5124
880-3946-61	S-20, 1'	Total/NA	Solid	8021B	5124
880-3946-65	S-19, 1'	Total/NA	Solid	8021B	5124
880-3946-69	S-18, 1'	Total/NA	Solid	8021B	5124
880-3946-73	S-17, 1'	Total/NA	Solid	8021B	5124
880-3946-79	S-16, 1'	Total/NA	Solid	8021B	5124
880-3946-83	S-15, 1'	Total/NA	Solid	8021B	5124
880-3946-87	S-12, 1'	Total/NA	Solid	8021B	5124
880-3946-91	S-11, 1'	Total/NA	Solid	8021B	5124
MB 880-5124/5-A	Method Blank	Total/NA	Solid	8021B	5124
MB 880-5141/5-A	Method Blank	Total/NA	Solid	8021B	5141
LCS 880-5124/1-A	Lab Control Sample	Total/NA	Solid	8021B	5124
LCSD 880-5124/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5124
880-3946-22 MS	S-68, 1'	Total/NA	Solid	8021B	5124
880-3946-22 MSD	S-68, 1'	Total/NA	Solid	8021B	5124

GC Semi VOA

Prep Batch: 5199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-51	S-23, 1'	Total/NA	Solid	8015NM Prep	
880-3946-55	S-22, 1'	Total/NA	Solid	8015NM Prep	
880-3946-59	S-21, 1'	Total/NA	Solid	8015NM Prep	
880-3946-61	S-20, 1'	Total/NA	Solid	8015NM Prep	
880-3946-65	S-19, 1'	Total/NA	Solid	8015NM Prep	
MB 880-5199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-940-A-41-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

GC Semi VOA (Continued)

Prep Batch: 5199 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-A-41-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-51	S-23, 1'	Total/NA	Solid	8015B NM	5199
880-3946-55	S-22, 1'	Total/NA	Solid	8015B NM	5199
880-3946-59	S-21, 1'	Total/NA	Solid	8015B NM	5199
880-3946-61	S-20, 1'	Total/NA	Solid	8015B NM	5199
880-3946-65	S-19, 1'	Total/NA	Solid	8015B NM	5199
MB 880-5199/1-A	Method Blank	Total/NA	Solid	8015B NM	5199
LCS 880-5199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5199
LCSD 880-5199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5199
890-940-A-41-F MS	Matrix Spike	Total/NA	Solid	8015B NM	5199
890-940-A-41-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	5199

Prep Batch: 5218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-1	S-56, 1'	Total/NA	Solid	8015NM Prep	
880-3946-4	S-57, 1'	Total/NA	Solid	8015NM Prep	
880-3946-7	S-63, 1'	Total/NA	Solid	8015NM Prep	
880-3946-10	S-64, 1'	Total/NA	Solid	8015NM Prep	
880-3946-13	S-65, 1'	Total/NA	Solid	8015NM Prep	
880-3946-16	S-66, 1'	Total/NA	Solid	8015NM Prep	
880-3946-19	S-69, 1'	Total/NA	Solid	8015NM Prep	
880-3946-22	S-68, 1'	Total/NA	Solid	8015NM Prep	
880-3946-25	S-60, 1'	Total/NA	Solid	8015NM Prep	
880-3946-28	S-61, 1'	Total/NA	Solid	8015NM Prep	
880-3946-31	S-59, 1'	Total/NA	Solid	8015NM Prep	
880-3946-34	S-58, 1'	Total/NA	Solid	8015NM Prep	
880-3946-37	S-27, 1'	Total/NA	Solid	8015NM Prep	
880-3946-40	S-26, 1'	Total/NA	Solid	8015NM Prep	
880-3946-44	S-25, 1'	Total/NA	Solid	8015NM Prep	
880-3946-48	S-24, 1'	Total/NA	Solid	8015NM Prep	
880-3946-69	S-18, 1'	Total/NA	Solid	8015NM Prep	
880-3946-73	S-17, 1'	Total/NA	Solid	8015NM Prep	
880-3946-79	S-16, 1'	Total/NA	Solid	8015NM Prep	
880-3946-83	S-15, 1'	Total/NA	Solid	8015NM Prep	
MB 880-5218/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5218/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5218/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-3946-1 MS	S-56, 1'	Total/NA	Solid	8015NM Prep	
880-3946-1 MSD	S-56, 1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 5219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-87	S-12, 1'	Total/NA	Solid	8015NM Prep	
880-3946-91	S-11, 1'	Total/NA	Solid	8015NM Prep	
MB 880-5219/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5219/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5219/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-3887-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

GC Semi VOA (Continued)

Prep Batch: 5219 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3887-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-1	S-56, 1'	Total/NA	Solid	8015B NM	5218
880-3946-4	S-57, 1'	Total/NA	Solid	8015B NM	5218
880-3946-7	S-63, 1'	Total/NA	Solid	8015B NM	5218
880-3946-10	S-64, 1'	Total/NA	Solid	8015B NM	5218
880-3946-13	S-65, 1'	Total/NA	Solid	8015B NM	5218
880-3946-16	S-66, 1'	Total/NA	Solid	8015B NM	5218
880-3946-19	S-69, 1'	Total/NA	Solid	8015B NM	5218
880-3946-22	S-68, 1'	Total/NA	Solid	8015B NM	5218
880-3946-25	S-60, 1'	Total/NA	Solid	8015B NM	5218
880-3946-28	S-61, 1'	Total/NA	Solid	8015B NM	5218
880-3946-31	S-59, 1'	Total/NA	Solid	8015B NM	5218
880-3946-34	S-58, 1'	Total/NA	Solid	8015B NM	5218
880-3946-37	S-27, 1'	Total/NA	Solid	8015B NM	5218
880-3946-40	S-26, 1'	Total/NA	Solid	8015B NM	5218
880-3946-44	S-25, 1'	Total/NA	Solid	8015B NM	5218
880-3946-48	S-24, 1'	Total/NA	Solid	8015B NM	5218
880-3946-69	S-18, 1'	Total/NA	Solid	8015B NM	5218
880-3946-73	S-17, 1'	Total/NA	Solid	8015B NM	5218
880-3946-79	S-16, 1'	Total/NA	Solid	8015B NM	5218
880-3946-83	S-15, 1'	Total/NA	Solid	8015B NM	5218
880-3946-87	S-12, 1'	Total/NA	Solid	8015B NM	5219
880-3946-91	S-11, 1'	Total/NA	Solid	8015B NM	5219
MB 880-5218/1-A	Method Blank	Total/NA	Solid	8015B NM	5218
MB 880-5219/1-A	Method Blank	Total/NA	Solid	8015B NM	5219
LCS 880-5218/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5218
LCS 880-5219/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5219
LCSD 880-5218/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5218
LCSD 880-5219/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5219
880-3887-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	5219
880-3887-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	5219
880-3946-1 MS	S-56, 1'	Total/NA	Solid	8015B NM	5218
880-3946-1 MSD	S-56, 1'	Total/NA	Solid	8015B NM	5218

HPLC/IC

Leach Batch: 5150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-69	S-18, 1'	Soluble	Solid	DI Leach	
880-3946-73	S-17, 1'	Soluble	Solid	DI Leach	
880-3946-76	S-21, 5'	Soluble	Solid	DI Leach	
MB 880-5150/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5150/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5150/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-3920-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-3920-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-3935-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-3935-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

HPLC/IC

Leach Batch: 5151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-1	S-56, 1'	Soluble	Solid	DI Leach	
880-3946-77	S-21, 10'	Soluble	Solid	DI Leach	
880-3946-79	S-16, 1'	Soluble	Solid	DI Leach	
880-3946-83	S-15, 1'	Soluble	Solid	DI Leach	
880-3946-84	S-15, 3'	Soluble	Solid	DI Leach	
880-3946-87	S-12, 1'	Soluble	Solid	DI Leach	
880-3946-91	S-11, 1'	Soluble	Solid	DI Leach	
MB 880-5151/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5151/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5151/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-3946-1 MS	S-56, 1'	Soluble	Solid	DI Leach	
880-3946-1 MSD	S-56, 1'	Soluble	Solid	DI Leach	
880-3946-A-85-B MS	880-3946-A-85-B MS	Soluble	Solid	DI Leach	
880-3946-A-85-C MSD	880-3946-A-85-C MSD	Soluble	Solid	DI Leach	

Leach Batch: 5152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-4	S-57, 1'	Soluble	Solid	DI Leach	
880-3946-7	S-63, 1'	Soluble	Solid	DI Leach	
880-3946-10	S-64, 1'	Soluble	Solid	DI Leach	
880-3946-13	S-65, 1'	Soluble	Solid	DI Leach	
880-3946-16	S-66, 1'	Soluble	Solid	DI Leach	
880-3946-17	S-66, 3'	Soluble	Solid	DI Leach	
880-3946-19	S-69, 1'	Soluble	Solid	DI Leach	
880-3946-22	S-68, 1'	Soluble	Solid	DI Leach	
MB 880-5152/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5152/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5152/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-3946-13 MS	S-65, 1'	Soluble	Solid	DI Leach	
880-3946-13 MSD	S-65, 1'	Soluble	Solid	DI Leach	
880-3946-A-3-B MS	880-3946-A-3-B MS	Soluble	Solid	DI Leach	
880-3946-A-3-C MSD	880-3946-A-3-C MSD	Soluble	Solid	DI Leach	

Leach Batch: 5153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-25	S-60, 1'	Soluble	Solid	DI Leach	
880-3946-26	S-60, 3'	Soluble	Solid	DI Leach	
880-3946-28	S-61, 1'	Soluble	Solid	DI Leach	
880-3946-31	S-59, 1'	Soluble	Solid	DI Leach	
880-3946-32	S-59, 3'	Soluble	Solid	DI Leach	
880-3946-33	S-59, 5'	Soluble	Solid	DI Leach	
880-3946-34	S-58, 1'	Soluble	Solid	DI Leach	
880-3946-35	S-58, 3'	Soluble	Solid	DI Leach	
880-3946-36	S-58, 5'	Soluble	Solid	DI Leach	
880-3946-37	S-27, 1'	Soluble	Solid	DI Leach	
880-3946-38	S-27, 3'	Soluble	Solid	DI Leach	
880-3946-40	S-26, 1'	Soluble	Solid	DI Leach	
880-3946-41	S-26, 3'	Soluble	Solid	DI Leach	
MB 880-5153/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5153/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5153/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

HPLC/IC (Continued)

Leach Batch: 5153 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-33 MS	S-59,5'	Soluble	Solid	DI Leach	
880-3946-33 MSD	S-59,5'	Soluble	Solid	DI Leach	
880-3946-A-23-B MS	880-3946-A-23-B MS	Soluble	Solid	DI Leach	
880-3946-A-23-C MSD	880-3946-A-23-C MSD	Soluble	Solid	DI Leach	

Leach Batch: 5154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-44	S-25,1'	Soluble	Solid	DI Leach	
880-3946-45	S-25,3'	Soluble	Solid	DI Leach	
880-3946-48	S-24, 1'	Soluble	Solid	DI Leach	
880-3946-51	S-23,1'	Soluble	Solid	DI Leach	
880-3946-52	S-23, 3'	Soluble	Solid	DI Leach	
880-3946-53	S-23, 5'	Soluble	Solid	DI Leach	
880-3946-54	S-23,10'	Soluble	Solid	DI Leach	
880-3946-55	S-22,1'	Soluble	Solid	DI Leach	
880-3946-56	S-22,3'	Soluble	Solid	DI Leach	
880-3946-59	S-21, 1'	Soluble	Solid	DI Leach	
880-3946-60	S-21,3'	Soluble	Solid	DI Leach	
880-3946-61	S-20,1'	Soluble	Solid	DI Leach	
880-3946-62	S-20,3'	Soluble	Solid	DI Leach	
MB 880-5154/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5154/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5154/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-3946-53 MS	S-23, 5'	Soluble	Solid	DI Leach	
880-3946-53 MSD	S-23, 5'	Soluble	Solid	DI Leach	
880-3946-A-43-B MS	880-3946-A-43-B MS	Soluble	Solid	DI Leach	
880-3946-A-43-C MSD	880-3946-A-43-C MSD	Soluble	Solid	DI Leach	

Leach Batch: 5155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-63	S-20,5'	Soluble	Solid	DI Leach	
880-3946-64	S-20,8'	Soluble	Solid	DI Leach	
880-3946-65	S-19,1'	Soluble	Solid	DI Leach	
880-3946-66	S-19,3'	Soluble	Solid	DI Leach	
880-3946-67	S-19,5'	Soluble	Solid	DI Leach	
MB 880-5155/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5155/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5155/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-3946-63 MS	S-20,5'	Soluble	Solid	DI Leach	
880-3946-63 MSD	S-20,5'	Soluble	Solid	DI Leach	

Analysis Batch: 5267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-69	S-18,1'	Soluble	Solid	300.0	5150
880-3946-73	S-17,1'	Soluble	Solid	300.0	5150
880-3946-76	S-21,5'	Soluble	Solid	300.0	5150
MB 880-5150/1-A	Method Blank	Soluble	Solid	300.0	5150
LCS 880-5150/2-A	Lab Control Sample	Soluble	Solid	300.0	5150
LCSD 880-5150/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5150
880-3920-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	5150
880-3920-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	5150

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

HPLC/IC (Continued)

Analysis Batch: 5267 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3935-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	5150
880-3935-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	5150

Analysis Batch: 5314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-1	S-56, 1'	Soluble	Solid	300.0	5151
880-3946-77	S-21, 10'	Soluble	Solid	300.0	5151
880-3946-79	S-16, 1'	Soluble	Solid	300.0	5151
880-3946-83	S-15, 1'	Soluble	Solid	300.0	5151
880-3946-84	S-15, 3'	Soluble	Solid	300.0	5151
880-3946-87	S-12, 1'	Soluble	Solid	300.0	5151
880-3946-91	S-11, 1'	Soluble	Solid	300.0	5151
MB 880-5151/1-A	Method Blank	Soluble	Solid	300.0	5151
LCS 880-5151/2-A	Lab Control Sample	Soluble	Solid	300.0	5151
LCSD 880-5151/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5151
880-3946-1 MS	S-56, 1'	Soluble	Solid	300.0	5151
880-3946-1 MSD	S-56, 1'	Soluble	Solid	300.0	5151
880-3946-A-85-B MS	880-3946-A-85-B MS	Soluble	Solid	300.0	5151
880-3946-A-85-C MSD	880-3946-A-85-C MSD	Soluble	Solid	300.0	5151

Analysis Batch: 5315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-25	S-60, 1'	Soluble	Solid	300.0	5153
880-3946-26	S-60, 3'	Soluble	Solid	300.0	5153
880-3946-28	S-61, 1'	Soluble	Solid	300.0	5153
880-3946-31	S-59, 1'	Soluble	Solid	300.0	5153
880-3946-32	S-59, 3'	Soluble	Solid	300.0	5153
880-3946-33	S-59, 5'	Soluble	Solid	300.0	5153
880-3946-34	S-58, 1'	Soluble	Solid	300.0	5153
880-3946-35	S-58, 3'	Soluble	Solid	300.0	5153
880-3946-36	S-58, 5'	Soluble	Solid	300.0	5153
880-3946-37	S-27, 1'	Soluble	Solid	300.0	5153
880-3946-38	S-27, 3'	Soluble	Solid	300.0	5153
880-3946-40	S-26, 1'	Soluble	Solid	300.0	5153
880-3946-41	S-26, 3'	Soluble	Solid	300.0	5153
MB 880-5153/1-A	Method Blank	Soluble	Solid	300.0	5153
LCS 880-5153/2-A	Lab Control Sample	Soluble	Solid	300.0	5153
LCSD 880-5153/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5153
880-3946-33 MS	S-59, 5'	Soluble	Solid	300.0	5153
880-3946-33 MSD	S-59, 5'	Soluble	Solid	300.0	5153
880-3946-A-23-B MS	880-3946-A-23-B MS	Soluble	Solid	300.0	5153
880-3946-A-23-C MSD	880-3946-A-23-C MSD	Soluble	Solid	300.0	5153

Analysis Batch: 5316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-44	S-25, 1'	Soluble	Solid	300.0	5154
880-3946-45	S-25, 3'	Soluble	Solid	300.0	5154
880-3946-48	S-24, 1'	Soluble	Solid	300.0	5154
880-3946-51	S-23, 1'	Soluble	Solid	300.0	5154
880-3946-52	S-23, 3'	Soluble	Solid	300.0	5154
880-3946-53	S-23, 5'	Soluble	Solid	300.0	5154

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

HPLC/IC (Continued)

Analysis Batch: 5316 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-54	S-23,10'	Soluble	Solid	300.0	5154
880-3946-55	S-22,1'	Soluble	Solid	300.0	5154
880-3946-56	S-22,3'	Soluble	Solid	300.0	5154
880-3946-59	S-21, 1'	Soluble	Solid	300.0	5154
880-3946-60	S-21,3'	Soluble	Solid	300.0	5154
880-3946-61	S-20,1'	Soluble	Solid	300.0	5154
880-3946-62	S-20,3'	Soluble	Solid	300.0	5154
MB 880-5154/1-A	Method Blank	Soluble	Solid	300.0	5154
LCS 880-5154/2-A	Lab Control Sample	Soluble	Solid	300.0	5154
LCSD 880-5154/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5154
880-3946-53 MS	S-23, 5'	Soluble	Solid	300.0	5154
880-3946-53 MSD	S-23, 5'	Soluble	Solid	300.0	5154
880-3946-A-43-B MS	880-3946-A-43-B MS	Soluble	Solid	300.0	5154
880-3946-A-43-C MSD	880-3946-A-43-C MSD	Soluble	Solid	300.0	5154

Analysis Batch: 5317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-63	S-20,5'	Soluble	Solid	300.0	5155
880-3946-64	S-20,8'	Soluble	Solid	300.0	5155
880-3946-65	S-19,1'	Soluble	Solid	300.0	5155
880-3946-66	S-19,3'	Soluble	Solid	300.0	5155
880-3946-67	S-19,5'	Soluble	Solid	300.0	5155
MB 880-5155/1-A	Method Blank	Soluble	Solid	300.0	5155
LCS 880-5155/2-A	Lab Control Sample	Soluble	Solid	300.0	5155
LCSD 880-5155/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5155
880-3946-63 MS	S-20,5'	Soluble	Solid	300.0	5155
880-3946-63 MSD	S-20,5'	Soluble	Solid	300.0	5155

Analysis Batch: 5319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3946-4	S-57, 1'	Soluble	Solid	300.0	5152
880-3946-7	S-63, 1'	Soluble	Solid	300.0	5152
880-3946-10	S-64, 1'	Soluble	Solid	300.0	5152
880-3946-13	S-65, 1'	Soluble	Solid	300.0	5152
880-3946-16	S-66, 1'	Soluble	Solid	300.0	5152
880-3946-17	S-66, 3'	Soluble	Solid	300.0	5152
880-3946-19	S-69,1'	Soluble	Solid	300.0	5152
880-3946-22	S-68,1'	Soluble	Solid	300.0	5152
MB 880-5152/1-A	Method Blank	Soluble	Solid	300.0	5152
LCS 880-5152/2-A	Lab Control Sample	Soluble	Solid	300.0	5152
LCSD 880-5152/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5152
880-3946-13 MS	S-65, 1'	Soluble	Solid	300.0	5152
880-3946-13 MSD	S-65, 1'	Soluble	Solid	300.0	5152
880-3946-A-3-B MS	880-3946-A-3-B MS	Soluble	Solid	300.0	5152
880-3946-A-3-C MSD	880-3946-A-3-C MSD	Soluble	Solid	300.0	5152

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-56, 1'

Date Collected: 07/07/21 07:53

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5122	07/13/21 16:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5144	07/14/21 22:24	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 12:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5151	07/14/21 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			5314	07/16/21 19:00	CH	XEN MID

Client Sample ID: S-57, 1'

Date Collected: 07/07/21 08:33

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5122	07/13/21 16:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5144	07/14/21 22:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 13:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5152	07/14/21 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			5319	07/16/21 22:25	CH	XEN MID

Client Sample ID: S-63, 1'

Date Collected: 07/07/21 08:58

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5122	07/13/21 16:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5144	07/14/21 23:16	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 13:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5152	07/14/21 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			5319	07/16/21 22:41	CH	XEN MID

Client Sample ID: S-64, 1'

Date Collected: 07/07/21 09:28

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5122	07/13/21 16:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5144	07/14/21 23:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 13:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5152	07/14/21 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			5319	07/16/21 23:08	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-65, 1'

Date Collected: 07/07/21 09:53

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5122	07/13/21 16:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5144	07/15/21 00:06	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 14:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5152	07/14/21 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			5319	07/16/21 23:24	CH	XEN MID

Client Sample ID: S-66, 1'

Date Collected: 07/07/21 10:13

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5122	07/13/21 16:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5144	07/15/21 00:31	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5152	07/14/21 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			5319	07/17/21 00:02	CH	XEN MID

Client Sample ID: S-66, 3'

Date Collected: 07/07/21 10:14

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	5152	07/14/21 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			5319	07/17/21 00:07	CH	XEN MID

Client Sample ID: S-69,1'

Date Collected: 07/07/21 10:38

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5122	07/13/21 16:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5144	07/15/21 00:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 14:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5152	07/14/21 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			5319	07/17/21 00:18	CH	XEN MID

Client Sample ID: S-68,1'

Date Collected: 07/07/21 11:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 04:57	MR	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-68,1'

Date Collected: 07/07/21 11:00

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 15:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	5152	07/14/21 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			5319	07/17/21 00:34	CH	XEN MID

Client Sample ID: S-60, 1'

Date Collected: 07/07/21 12:23

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 05:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 15:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		5			5315	07/17/21 13:35	CH	XEN MID

Client Sample ID: S-60, 3'

Date Collected: 07/07/21 12:24

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		1			5315	07/17/21 01:44	CH	XEN MID

Client Sample ID: S-61 1'

Date Collected: 07/07/21 12:43

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 05:38	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 15:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		1			5315	07/17/21 02:06	CH	XEN MID

Client Sample ID: S-59,1'

Date Collected: 07/07/21 13:03

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 05:59	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 16:39	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-59,1'**Date Collected: 07/07/21 13:03****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-31****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		10			5315	07/17/21 02:22	CH	XEN MID

Client Sample ID: S-59, 3'**Date Collected: 07/07/21 13:04****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-32****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		1			5315	07/17/21 02:28	CH	XEN MID

Client Sample ID: S-59,5'**Date Collected: 07/07/21 13:05****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-33****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		1			5315	07/17/21 02:33	CH	XEN MID

Client Sample ID: S-58, 1'**Date Collected: 07/07/21 13:23****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-34****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 06:19	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 17:00	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		5			5315	07/17/21 02:49	CH	XEN MID

Client Sample ID: S-58, 3'**Date Collected: 07/07/21 13:24****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-35****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		5			5315	07/17/21 02:54	CH	XEN MID

Client Sample ID: S-58, 5'**Date Collected: 07/07/21 13:25****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-36****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		1			5315	07/17/21 03:11	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-27, 1'

Date Collected: 07/08/21 07:43

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-37

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 06:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 17:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		5			5315	07/17/21 13:41	CH	XEN MID

Client Sample ID: S-27, 3'

Date Collected: 07/08/21 07:44

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-38

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		1			5315	07/17/21 03:21	CH	XEN MID

Client Sample ID: S-26,1'

Date Collected: 07/08/21 08:02

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 07:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 17:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		5			5315	07/17/21 03:32	CH	XEN MID

Client Sample ID: S-26,3'

Date Collected: 07/08/21 08:03

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-41

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	5153	07/14/21 10:40	CH	XEN MID
Soluble	Analysis	300.0		1			5315	07/17/21 03:38	CH	XEN MID

Client Sample ID: S-25,1'

Date Collected: 07/08/21 08:48

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-44

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 07:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 18:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		1			5316	07/17/21 04:42	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-25,3'**Date Collected: 07/08/21 08:49****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-45****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		1			5316	07/17/21 04:48	CH	XEN MID

Client Sample ID: S-24, 1'**Date Collected: 07/08/21 00:00****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-48****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 07:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 18:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		1			5316	07/17/21 05:15	CH	XEN MID

Client Sample ID: S-23,1'**Date Collected: 07/08/21 00:00****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-51****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 08:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 19:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		1			5316	07/17/21 05:31	CH	XEN MID

Client Sample ID: S-23, 3'**Date Collected: 07/08/21 00:00****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-52****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		5			5316	07/17/21 05:36	CH	XEN MID

Client Sample ID: S-23, 5'**Date Collected: 07/08/21 00:00****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-53****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		1			5316	07/17/21 05:41	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-23,10'

Lab Sample ID: 880-3946-54

Date Collected: 07/08/21 00:00

Matrix: Solid

Date Received: 07/13/21 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		1			5316	07/17/21 05:58	CH	XEN MID

Client Sample ID: S-22,1'

Lab Sample ID: 880-3946-55

Date Collected: 07/08/21 00:00

Matrix: Solid

Date Received: 07/13/21 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 09:25	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 20:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		1			5316	07/17/21 06:03	CH	XEN MID

Client Sample ID: S-22,3'

Lab Sample ID: 880-3946-56

Date Collected: 07/08/21 00:00

Matrix: Solid

Date Received: 07/13/21 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		1			5316	07/17/21 06:19	CH	XEN MID

Client Sample ID: S-21, 1'

Lab Sample ID: 880-3946-59

Date Collected: 07/08/21 00:00

Matrix: Solid

Date Received: 07/13/21 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 09:45	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 20:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		1			5316	07/17/21 06:35	CH	XEN MID

Client Sample ID: S-21,3'

Lab Sample ID: 880-3946-60

Date Collected: 07/08/21 00:00

Matrix: Solid

Date Received: 07/13/21 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		1			5316	07/17/21 06:41	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-20,1'**Lab Sample ID: 880-3946-61****Date Collected: 07/08/21 13:35****Matrix: Solid****Date Received: 07/13/21 10:36**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 10:06	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 20:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		5			5316	07/17/21 06:46	CH	XEN MID

Client Sample ID: S-20,3'**Lab Sample ID: 880-3946-62****Date Collected: 07/08/21 13:36****Matrix: Solid****Date Received: 07/13/21 10:36**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	5154	07/14/21 10:42	CH	XEN MID
Soluble	Analysis	300.0		1			5316	07/17/21 06:51	CH	XEN MID

Client Sample ID: S-20,5'**Lab Sample ID: 880-3946-63****Date Collected: 07/08/21 13:37****Matrix: Solid****Date Received: 07/13/21 10:36**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	5155	07/14/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			5317	07/16/21 19:52	CH	XEN MID

Client Sample ID: S-20,8'**Lab Sample ID: 880-3946-64****Date Collected: 07/08/21 13:38****Matrix: Solid****Date Received: 07/13/21 10:36**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	5155	07/14/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			5317	07/16/21 20:09	CH	XEN MID

Client Sample ID: S-19,1'**Lab Sample ID: 880-3946-65****Date Collected: 07/08/21 13:57****Matrix: Solid****Date Received: 07/13/21 10:36**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 10:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 21:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5155	07/14/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		5			5317	07/16/21 20:14	CH	XEN MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-19,3'**Date Collected: 07/08/21 13:58****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-66****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	5155	07/14/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		5			5317	07/19/21 10:42	CH	XEN MID

Client Sample ID: S-19,5'**Date Collected: 07/08/21 13:59****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-67****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	5155	07/14/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			5317	07/16/21 20:25	CH	XEN MID

Client Sample ID: S-18,1'**Date Collected: 07/09/21 07:37****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-69****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 10:47	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 18:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5150	07/14/21 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			5267	07/16/21 11:51	CH	XEN MID

Client Sample ID: S-17,1'**Date Collected: 07/09/21 08:07****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-73****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 11:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 19:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	5150	07/14/21 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			5267	07/16/21 13:28	CH	XEN MID

Client Sample ID: S-21,5'**Date Collected: 07/08/21 12:34****Date Received: 07/13/21 10:36****Lab Sample ID: 880-3946-76****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	5150	07/14/21 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			5267	07/16/21 13:44	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-21,10'

Date Collected: 07/08/21 12:18

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-77

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	5151	07/14/21 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			5314	07/16/21 19:22	CH	XEN MID

Client Sample ID: S-16,1'

Date Collected: 07/09/21 08:35

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-79

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 11:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 19:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5151	07/14/21 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			5314	07/16/21 19:32	CH	XEN MID

Client Sample ID: S-15,1'

Date Collected: 07/09/21 08:57

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-83

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 11:49	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5218	07/15/21 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/17/21 19:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5151	07/14/21 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			5314	07/16/21 20:05	CH	XEN MID

Client Sample ID: S-15, 3'

Date Collected: 07/09/21 08:58

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-84

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	5151	07/14/21 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			5314	07/16/21 20:10	CH	XEN MID

Client Sample ID: S-12,1'

Date Collected: 07/09/21 09:37

Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-87

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 12:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5219	07/15/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/18/21 02:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5151	07/14/21 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			5314	07/16/21 20:37	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Client Sample ID: S-11,1'
Date Collected: 07/09/21 10:00
Date Received: 07/13/21 10:36

Lab Sample ID: 880-3946-91
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5124	07/13/21 16:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 12:31	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5219	07/15/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5323	07/18/21 03:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5151	07/14/21 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			5314	07/16/21 21:09	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Eurofins Xenco, Midland

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-3946-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-3946-1	S-56, 1'	Solid	07/07/21 07:53	07/13/21 10:36
880-3946-4	S-57, 1'	Solid	07/07/21 08:33	07/13/21 10:36
880-3946-7	S-63, 1'	Solid	07/07/21 08:58	07/13/21 10:36
880-3946-10	S-64, 1'	Solid	07/07/21 09:28	07/13/21 10:36
880-3946-13	S-65, 1'	Solid	07/07/21 09:53	07/13/21 10:36
880-3946-16	S-66, 1'	Solid	07/07/21 10:13	07/13/21 10:36
880-3946-17	S-66, 3'	Solid	07/07/21 10:14	07/13/21 10:36
880-3946-19	S-69,1'	Solid	07/07/21 10:38	07/13/21 10:36
880-3946-22	S-68,1'	Solid	07/07/21 11:00	07/13/21 10:36
880-3946-25	S-60, 1'	Solid	07/07/21 12:23	07/13/21 10:36
880-3946-26	S-60, 3'	Solid	07/07/21 12:24	07/13/21 10:36
880-3946-28	S-61 1'	Solid	07/07/21 12:43	07/13/21 10:36
880-3946-31	S-59,1'	Solid	07/07/21 13:03	07/13/21 10:36
880-3946-32	S-59, 3'	Solid	07/07/21 13:04	07/13/21 10:36
880-3946-33	S-59,5'	Solid	07/07/21 13:05	07/13/21 10:36
880-3946-34	S-58, 1'	Solid	07/07/21 13:23	07/13/21 10:36
880-3946-35	S-58, 3'	Solid	07/07/21 13:24	07/13/21 10:36
880-3946-36	S-58, 5'	Solid	07/07/21 13:25	07/13/21 10:36
880-3946-37	S-27, 1'	Solid	07/08/21 07:43	07/13/21 10:36
880-3946-38	S-27, 3'	Solid	07/08/21 07:44	07/13/21 10:36
880-3946-40	S-26,1'	Solid	07/08/21 08:02	07/13/21 10:36
880-3946-41	S-26,3'	Solid	07/08/21 08:03	07/13/21 10:36
880-3946-44	S-25,1'	Solid	07/08/21 08:48	07/13/21 10:36
880-3946-45	S-25,3'	Solid	07/08/21 08:49	07/13/21 10:36
880-3946-48	S-24, 1'	Solid	07/08/21 00:00	07/13/21 10:36
880-3946-51	S-23,1'	Solid	07/08/21 00:00	07/13/21 10:36
880-3946-52	S-23, 3'	Solid	07/08/21 00:00	07/13/21 10:36
880-3946-53	S-23, 5'	Solid	07/08/21 00:00	07/13/21 10:36
880-3946-54	S-23,10'	Solid	07/08/21 00:00	07/13/21 10:36
880-3946-55	S-22,1'	Solid	07/08/21 00:00	07/13/21 10:36
880-3946-56	S-22,3'	Solid	07/08/21 00:00	07/13/21 10:36
880-3946-59	S-21, 1'	Solid	07/08/21 00:00	07/13/21 10:36
880-3946-60	S-21,3'	Solid	07/08/21 00:00	07/13/21 10:36
880-3946-61	S-20,1'	Solid	07/08/21 13:35	07/13/21 10:36
880-3946-62	S-20,3'	Solid	07/08/21 13:36	07/13/21 10:36
880-3946-63	S-20,5'	Solid	07/08/21 13:37	07/13/21 10:36
880-3946-64	S-20,8'	Solid	07/08/21 13:38	07/13/21 10:36
880-3946-65	S-19,1'	Solid	07/08/21 13:57	07/13/21 10:36
880-3946-66	S-19,3'	Solid	07/08/21 13:58	07/13/21 10:36
880-3946-67	S-19,5'	Solid	07/08/21 13:59	07/13/21 10:36
880-3946-69	S-18,1'	Solid	07/09/21 07:37	07/13/21 10:36
880-3946-73	S-17,1'	Solid	07/09/21 08:07	07/13/21 10:36
880-3946-76	S-21,5'	Solid	07/08/21 12:34	07/13/21 10:36
880-3946-77	S-21,10'	Solid	07/08/21 12:18	07/13/21 10:36
880-3946-79	S-16,1'	Solid	07/09/21 08:35	07/13/21 10:36
880-3946-83	S-15,1'	Solid	07/09/21 08:57	07/13/21 10:36
880-3946-84	S-15, 3'	Solid	07/09/21 08:58	07/13/21 10:36
880-3946-87	S-12,1'	Solid	07/09/21 09:37	07/13/21 10:36
880-3946-91	S-11,1'	Solid	07/09/21 10:00	07/13/21 10:36

[illegible]

CUSTODY:

CHAIN-OF-CUSTODY

Varson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 7/13/2021 PAGE 2 OF 7
PO#: _____ LAB WORK ORDER#: 080-3946
PROJECT LOCATION OR NAME: Palmie AST
LAI PROJECT #: 21-0105-01 COLLECTOR: WBTTP

PAGE 2 OF 7

COLLECTOR: WBT

TRRP report?		S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	PRESERVATION		ANALYSES		FIELD NOTES		
☐ Yes	☒ No			HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESSERVED		
TIME ZONE Time zone/State										
Field Sample I D		Lab #	Date	Time	Matrix	# of Containers				
S-66, 1'			7/7/21	1013	S	1	X	X	X	Analyze chloride to comply per sample location
S-66, 3'				1014						
S-66, 5'				1015						
S-69, 1'				1038			X	X	X	
S-69, 3'				1039						
S-69, 5'				1040						
S-68, 1'				1100			X	X	X	
S-68, 3'				1101						
S-68, 5'				1102						
S-60, 1'				1223			X	X	X	
S-60, 3'				1224						
S-60, 5'				1225						
S-61, 1'				1243			X	X	X	
S-61, 3'				1244						
S-61, 5'				1245						
TOTAL						15				
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		TURN AROUND TIME		LABORATORY USE ONLY:		
<i>[Signature]</i>		7/15/21 16:31		<i>[Signature]</i>		NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐		RECEIVING TEMP <i>9/0.5</i> THERM# <i>1R8</i> CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED ☐ CARRIER BILL # _____ ☒ HAND DELIVERED		
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)						
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)						
LABORATORY		<i>[Signature]</i>								

[illegible]

Larson & Associates, Inc.

Environmental Consultants

507 N. Marientfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 2/13/2021 PAGE 4 OF 7

PO#: _____ LAB WORK ORDER#: 080-3946

PROJECT LOCATION OR NAME: Palmd AST

LAI PROJECT #: 21-0105-02 COLLECTOR: MB + TF

Data Reported to _____

TRRP report? ☐ Yes ☒ No

TIME ZONE
Time zone/State
MST

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

of Containers

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION	ANALYSES
S-25, 5'		2/12/21		S	1	HCl HNO ₃ H ₂ SO ₄ ☐ NaOH ☐ ICE UNPRESERVED	☒ BTEX ☐ MTBE ☐ ☐ TRPH 418 ☐ TPH 1005 ☐ TPH 1006 ☐ ☐ GASOLINE MOD 8015 ☐ ☐ DIESEL - MOD 8015 ☐ ☐ OIL - MOD 8015 ☐ ☐ VOC 8260 ☐ ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ ☐ 8082 PCBs ☐ ☐ TCLP - METALS (RCRA) ☐ TCLP VOC ☐ ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ ☐ LEAD - TOTAL ☐ D W 200 8 ☐ TCLP ☐ ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ ☐ pH ☐ HEXAVALENT CHROMIUM ☐ ☐ EXPLOSIVES ☐ PECTHOLATE ☐ ☐ CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐
S-25, 9'							
S-24, 1'							
S-24, 3'							
S-24, 5'							
S-23, 1'							
S-23, 3'							
S-23, 5'							
S-23, 15'							
S-22, 1'							
S-22, 3'							
S-22, 5'							
S-22, 10'							
S-21, 1'							
S-21, 3'							
TOTAL					15		

RELINQUISHED BY (Signature) _____ DATE/TIME 2/13/21 10:31 RECEIVED BY (Signature) MB

RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____

RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____

LABORATORY XENO

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY: 0/0.5
RECEIVING TEMP 12.8 THERM# 12.8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☒ CARRIER BILL # _____
☒ HAND DELIVERED

Analyze character to comply per sample location

No 1643

CHAIN-OF-CUSTODY

Varson & Associates, Inc.
Environmental Consultants

880-3946 Chain of Custody

Varientfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 7/13/21
PO#:
PROJECT LOCATION OR NAME:
LA PROJECT #: 21-0105-02
COLLECTOR:
PAGE 5 OF 7
LAB WORK ORDER#: 880-3946

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State

MST

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX, MTBE ☐

TPH 418 1 ☐ TPH 1005 ☐ TPH 1006 ☐

GASOLINE MOD 8015 ☐

DIESEL - MOD 8015 ☐

OIL - MOD 8015 ☐

VOC 8260 ☐

SVOC 8270 ☐

8081 PESTICIDES ☐

8082 PESTICIDES ☐

TCLP - METALS (RCRA) ☐

TCLP - METALS (RCRA) ☐

TCLP - METALS (RCRA) ☐

TCLP - METALS (RCRA) ☐

TCLP - METALS (RCRA) ☐

TCLP - METALS (RCRA) ☐

TCLP - METALS (RCRA) ☐

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TCLP - METALS (RCRA) ☐

TCLP - METALS (RCRA) ☐

TCLP - METALS (RCRA) ☐

TURN AROUND TIME

NORMAL ☒

1 DAY ☐

2 DAY ☐

OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP 9/0.5 THERM# 128

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED

CARRIER BILL #

HAND DELIVERED

FIELD NOTES

Analyze chloride
to 600 mg/kg
per sample
10/20/20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Varson & Associates, Inc.
Environmental Consultants

507 N. Marientfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 7/13/2021 PAGE 6 OF 7
PO#: _____ LAB WORK ORDER#: 880-3946
PROJECT LOCATION OR NAME: Palmview APT
LAI PROJECT #: A1-0105-02 COLLECTOR: MBLTP

CHAIN-OF-CUSTODY

No 1644

TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	TIME ZONE Time zone/State <u>MST</u>		Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	PRESERVATION	
ANALYSES																	
BTEX ☒ MTBE ☐ TPH 1005 ☐ TPH 1006 ☐																	
TRPH 418-1 ☐ TPH 1005 ☐ TPH 1006 ☐																	
GASOLINE MOD 8015 ☐																	
DIESEL - MOD 8015 ☐																	
OIL - MOD 8015 ☐																	
VOC 8260 ☐																	
SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐																	
8081 PESTICIDES ☐ 8151 HERBICIDES ☐																	
TCLP - METALS (RCRA) ☐ TCLP VOC ☐																	
TCLP - PEST ☐ HERB ☐ Semi-VOC ☐																	
TOTAL METALS (RCRA) ☐ OTHER LIST ☐																	
LEAD - TOTAL ☐ DW 200.8 ☐ TCLP ☐																	
ROI ☐ TOX ☐ FLASHPOINT ☐																	
TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐																	
pH ☐ HEXAVALENT CHROMIUM ☐																	
EXPLOSIVES ☐ PENTACHLORATE ☐																	
CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐																	
FIELD NOTES																	
S-21, 5' <u>7/13/21</u> <u>1234</u> <u>5</u> <u>1</u> <u>X</u> <u>Analyze</u>																	
S-21, 10' <u>1</u> <u>1218</u> <u>1</u> <u>1</u> <u>X</u> <u>characterize to</u>																	
S-12, 10' <u>7/9/21</u> <u>0810</u> <u>1</u> <u>1</u> <u>X</u> <u>geo mels for</u>																	
S-16, 1' <u>0835</u> <u>1</u> <u>1</u> <u>X</u> <u>sample location</u>																	
S-16, 3' <u>0834</u> <u>1</u> <u>1</u> <u>X</u> <u></u>																	
S-16, 5' <u>0833</u> <u>1</u> <u>1</u> <u>X</u> <u></u>																	
S-16, 10' <u>0832</u> <u>1</u> <u>1</u> <u>X</u> <u></u>																	
S-15, 1' <u>0857</u> <u>1</u> <u>1</u> <u>X</u> <u></u>																	
S-15, 3' <u>0858</u> <u>1</u> <u>1</u> <u>X</u> <u></u>																	
S-15, 5' <u>0859</u> <u>1</u> <u>1</u> <u>X</u> <u></u>																	
S-15, 10' <u>0900</u> <u>1</u> <u>1</u> <u>X</u> <u></u>																	
S-16, 1' <u>0937</u> <u>1</u> <u>1</u> <u>X</u> <u></u>																	
S-16, 3' <u>0938</u> <u>1</u> <u>1</u> <u>X</u> <u></u>																	
S-16, 5' <u>0939</u> <u>1</u> <u>1</u> <u>X</u> <u></u>																	
S-16, 10' <u>0940</u> <u>1</u> <u>1</u> <u>X</u> <u></u>																	
TOTAL <u>15</u>																	
RELINQUISHED BY (Signature) <u>[Signature]</u> DATE/TIME <u>7/13/21 10:31</u> RECEIVED BY (Signature) <u>[Signature]</u>																	
RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____																	
RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____																	
LABORATORY <u>Xenio</u> TURN AROUND TIME <u>NORMAL</u> ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐																	
LABORATORY USE ONLY: RECEIVING TEMP <u>0/0.5</u> THERM# <u>128</u>																	
☐ CARRIER BILL # _____ ☒ HAND DELIVERED																	

1
2
3
4
5
6
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9
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14

No 1645

Varson & Associates, Inc.
Environmental Consultants507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 7/13/2021

PO#: 880-3944

LAB WORK ORDER#: 880-3944

PROJECT LOCATION OR NAME: Permian APT

LAI PROJECT #: 81-0105-02 COLLECTOR: MB APT

PAGE 7 OF 7

CHAIN-OF-CUSTODY

Data Reported to:

TRRP report?
☐ Yes ☒ NoS=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHERTIME ZONE
Time zone/State

MST

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX ☐ MTBE ☐TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐GASOLINE MOD 8015 ☐DIESEL - MOD 8015 ☐OIL - MOD 8015 ☐VOC 8260 ☐SVOC 8270 ☐8081 PESTICIDES ☐8082 PESTICIDES ☐TCAP - METALS (RCRA) ☐TCAP - PEST ☐TOTAL METALS (RCRA) ☐LEAD - TOTAL ☐RCI ☐TDS ☐pH ☐EXPLOSIVES ☐CHLORIDES ☐ANIONS ☐ALKALINITY ☐

FIELD NOTES

5-11, 1'
5-11, 3'
5-11, 5'
5-11, 9'

7/12/1000

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7/12/1000

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Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-3946-1

Login Number: 3946

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-4093-1
Client Project/Site: Palmio AST
Revision: 1

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
7/27/2021 8:41:47 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-4093-1

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1

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⌘	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Midland

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Job ID: 880-4093-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-4093-1

Comments

No additional comments.

Receipt

The samples were received on 7/19/2021 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.5° C.

Receipt Exceptions

Rev 1: The report was revised to remove the extra CI results past the 600 mg/kg instruction per Robert Nelson (phone).

Analyze Chloride to 600 mg/kg per sample location.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-13, 1'

Date Collected: 07/15/21 07:52

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/19/21 11:38	07/20/21 19:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/19/21 11:38	07/20/21 19:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/19/21 11:38	07/20/21 19:43	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		07/19/21 11:38	07/20/21 19:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/19/21 11:38	07/20/21 19:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/19/21 11:38	07/20/21 19:43	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/19/21 11:38	07/20/21 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	07/19/21 11:38	07/20/21 19:43	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/19/21 11:38	07/20/21 19:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 13:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 13:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 13:35	1
Total TPH	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	07/20/21 15:40	07/26/21 13:35	1
o-Terphenyl (Surr)	116		70 - 130	07/20/21 15:40	07/26/21 13:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	935	F1	4.98	mg/Kg			07/22/21 05:09	1

Client Sample ID: S-13, 3'

Date Collected: 07/15/21 07:53

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-2

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	761		5.00	mg/Kg			07/22/21 05:25	1

Client Sample ID: S-13, 5'

Date Collected: 07/15/21 07:54

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-3

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	719		5.00	mg/Kg			07/22/21 05:30	1

Client Sample ID: S-13, 10'

Date Collected: 07/15/21 07:55

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.8		4.96	mg/Kg			07/22/21 05:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-10, 1'

Lab Sample ID: 880-4093-5

Date Collected: 07/15/21 08:17

Matrix: Solid

Date Received: 07/19/21 09:40

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/19/21 11:38	07/20/21 20:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/19/21 11:38	07/20/21 20:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/19/21 11:38	07/20/21 20:04	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/19/21 11:38	07/20/21 20:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/19/21 11:38	07/20/21 20:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/19/21 11:38	07/20/21 20:04	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/19/21 11:38	07/20/21 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	07/19/21 11:38	07/20/21 20:04	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/19/21 11:38	07/20/21 20:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/20/21 15:40	07/26/21 14:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/20/21 15:40	07/26/21 14:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/20/21 15:40	07/26/21 14:38	1
Total TPH	<49.8	U	49.8	mg/Kg		07/20/21 15:40	07/26/21 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	07/20/21 15:40	07/26/21 14:38	1
o-Terphenyl (Surr)	116		70 - 130	07/20/21 15:40	07/26/21 14:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.41		4.99	mg/Kg			07/22/21 05:41	1

Client Sample ID: S-9, 1'

Lab Sample ID: 880-4093-9

Date Collected: 07/15/21 08:47

Matrix: Solid

Date Received: 07/19/21 09:40

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/19/21 11:38	07/20/21 20:24	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/19/21 11:38	07/20/21 20:24	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/19/21 11:38	07/20/21 20:24	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		07/19/21 11:38	07/20/21 20:24	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/19/21 11:38	07/20/21 20:24	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/19/21 11:38	07/20/21 20:24	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/19/21 11:38	07/20/21 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/19/21 11:38	07/20/21 20:24	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/19/21 11:38	07/20/21 20:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 15:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-9, 1'

Date Collected: 07/15/21 08:47

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-9

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 15:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 15:19	1
Total TPH	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 15:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			07/20/21 15:40	07/26/21 15:19	1
o-Terphenyl (Surr)	121		70 - 130			07/20/21 15:40	07/26/21 15:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		24.9	mg/Kg			07/22/21 06:14	5

Client Sample ID: S-8, 1'

Date Collected: 07/15/21 09:07

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/19/21 11:38	07/20/21 20:44	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/19/21 11:38	07/20/21 20:44	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/19/21 11:38	07/20/21 20:44	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		07/19/21 11:38	07/20/21 20:44	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/19/21 11:38	07/20/21 20:44	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/19/21 11:38	07/20/21 20:44	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		07/19/21 11:38	07/20/21 20:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			07/19/21 11:38	07/20/21 20:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130			07/19/21 11:38	07/20/21 20:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 14:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 14:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 14:58	1
Total TPH	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 14:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			07/20/21 15:40	07/26/21 14:58	1
o-Terphenyl (Surr)	104		70 - 130			07/20/21 15:40	07/26/21 14:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	524		4.98	mg/Kg			07/22/21 06:46	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-7, 1'

Date Collected: 07/15/21 09:27

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-17

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/19/21 11:38	07/20/21 21:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/19/21 11:38	07/20/21 21:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/19/21 11:38	07/20/21 21:05	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		07/19/21 11:38	07/20/21 21:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/19/21 11:38	07/20/21 21:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/19/21 11:38	07/20/21 21:05	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/19/21 11:38	07/20/21 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	07/19/21 11:38	07/20/21 21:05	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/19/21 11:38	07/20/21 21:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/20/21 15:40	07/26/21 15:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/20/21 15:40	07/26/21 15:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/20/21 15:40	07/26/21 15:39	1
Total TPH	<49.8	U	49.8	mg/Kg		07/20/21 15:40	07/26/21 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130	07/20/21 15:40	07/26/21 15:39	1
o-Terphenyl (Surr)	121		70 - 130	07/20/21 15:40	07/26/21 15:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	870		4.99	mg/Kg			07/22/21 07:18	1

Client Sample ID: S-7, 3'

Date Collected: 07/15/21 09:28

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-18

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		25.0	mg/Kg			07/22/21 11:31	5

Client Sample ID: S-7, 5'

Date Collected: 07/15/21 09:29

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-19

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	551		5.00	mg/Kg			07/22/21 11:37	1

Client Sample ID: S-6, 1'

Date Collected: 07/15/21 10:07

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-21

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/19/21 11:38	07/20/21 21:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-6, 1'

Date Collected: 07/15/21 10:07

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-21

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201	mg/Kg		07/19/21 11:38	07/20/21 21:25	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/19/21 11:38	07/20/21 21:25	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		07/19/21 11:38	07/20/21 21:25	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/19/21 11:38	07/20/21 21:25	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/19/21 11:38	07/20/21 21:25	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/19/21 11:38	07/20/21 21:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/19/21 11:38	07/20/21 21:25	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/19/21 11:38	07/20/21 21:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/20/21 09:45	07/25/21 18:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/20/21 09:45	07/25/21 18:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/20/21 09:45	07/25/21 18:28	1
Total TPH	<49.9	U	49.9	mg/Kg		07/20/21 09:45	07/25/21 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	07/20/21 09:45	07/25/21 18:28	1
o-Terphenyl (Surr)	105		70 - 130	07/20/21 09:45	07/25/21 18:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.62		4.96	mg/Kg			07/22/21 11:51	1

Client Sample ID: S-5, 1'

Date Collected: 07/15/21 10:22

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-25

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/19/21 11:38	07/20/21 21:46	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/19/21 11:38	07/20/21 21:46	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/19/21 11:38	07/20/21 21:46	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		07/19/21 11:38	07/20/21 21:46	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/19/21 11:38	07/20/21 21:46	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/19/21 11:38	07/20/21 21:46	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/19/21 11:38	07/20/21 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/19/21 11:38	07/20/21 21:46	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/19/21 11:38	07/20/21 21:46	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 18:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 18:49	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-5, 1'

Date Collected: 07/15/21 10:22

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-25

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 18:49	1
Total TPH	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 18:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			07/20/21 09:45	07/25/21 18:49	1
o-Terphenyl (Surr)	108		70 - 130			07/20/21 09:45	07/25/21 18:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2610		24.9	mg/Kg			07/22/21 12:31	5

Client Sample ID: S-5, 3'

Date Collected: 07/15/21 10:23

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-26

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.35		4.98	mg/Kg			07/22/21 12:37	1

Client Sample ID: S-3, 1'

Date Collected: 07/15/21 10:46

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-29

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/19/21 11:38	07/20/21 22:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/19/21 11:38	07/20/21 22:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/19/21 11:38	07/20/21 22:06	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		07/19/21 11:38	07/20/21 22:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/19/21 11:38	07/20/21 22:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/19/21 11:38	07/20/21 22:06	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/19/21 11:38	07/20/21 22:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			07/19/21 11:38	07/20/21 22:06	1
1,4-Difluorobenzene (Surr)	102		70 - 130			07/19/21 11:38	07/20/21 22:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 19:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 19:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 19:09	1
Total TPH	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 19:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			07/20/21 09:45	07/25/21 19:09	1
o-Terphenyl (Surr)	105		70 - 130			07/20/21 09:45	07/25/21 19:09	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-3, 1'

Date Collected: 07/15/21 10:46

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-29

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2680		24.8	mg/Kg			07/22/21 13:10	5

Client Sample ID: S-3, 3'

Date Collected: 07/15/21 10:47

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-30

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.1		4.96	mg/Kg			07/22/21 13:27	1

Client Sample ID: S-4, 1'

Date Collected: 07/15/21 12:17

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-33

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/19/21 11:38	07/20/21 22:26	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/19/21 11:38	07/20/21 22:26	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/19/21 11:38	07/20/21 22:26	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		07/19/21 11:38	07/20/21 22:26	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/19/21 11:38	07/20/21 22:26	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/19/21 11:38	07/20/21 22:26	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/19/21 11:38	07/20/21 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/19/21 11:38	07/20/21 22:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/19/21 11:38	07/20/21 22:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/20/21 09:45	07/25/21 19:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/20/21 09:45	07/25/21 19:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/20/21 09:45	07/25/21 19:30	1
Total TPH	<49.9	U	49.9	mg/Kg		07/20/21 09:45	07/25/21 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	07/20/21 09:45	07/25/21 19:30	1
o-Terphenyl (Surr)	106		70 - 130	07/20/21 09:45	07/25/21 19:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2520		25.0	mg/Kg			07/22/21 13:43	5

Client Sample ID: S-4, 3'

Date Collected: 07/15/21 12:18

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-34

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		5.00	mg/Kg			07/22/21 13:49	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-2, 1'

Date Collected: 07/16/21 07:37

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-37

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/20/21 11:15	07/21/21 01:47	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/20/21 11:15	07/21/21 01:47	1
Ethylbenzene	<0.00201	U F1	0.00201	mg/Kg		07/20/21 11:15	07/21/21 01:47	1
m,p-Xylenes	<0.00402	U F1	0.00402	mg/Kg		07/20/21 11:15	07/21/21 01:47	1
o-Xylene	<0.00201	U F1	0.00201	mg/Kg		07/20/21 11:15	07/21/21 01:47	1
Xylenes, Total	<0.00402	U F1	0.00402	mg/Kg		07/20/21 11:15	07/21/21 01:47	1
Total BTEX	<0.00402	U F1	0.00402	mg/Kg		07/20/21 11:15	07/21/21 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/20/21 11:15	07/21/21 01:47	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/20/21 11:15	07/21/21 01:47	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/20/21 09:45	07/25/21 19:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/20/21 09:45	07/25/21 19:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/20/21 09:45	07/25/21 19:51	1
Total TPH	<49.9	U	49.9	mg/Kg		07/20/21 09:45	07/25/21 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	07/20/21 09:45	07/25/21 19:51	1
o-Terphenyl (Surr)	106		70 - 130	07/20/21 09:45	07/25/21 19:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.7		4.95	mg/Kg			07/23/21 13:20	1

Client Sample ID: S-1, 1'

Date Collected: 07/16/21 08:02

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-41

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/20/21 11:15	07/21/21 02:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/21 11:15	07/21/21 02:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/21 11:15	07/21/21 02:07	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/20/21 11:15	07/21/21 02:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/21 11:15	07/21/21 02:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/20/21 11:15	07/21/21 02:07	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/20/21 11:15	07/21/21 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	07/20/21 11:15	07/21/21 02:07	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/20/21 11:15	07/21/21 02:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 20:12	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-1, 1'

Lab Sample ID: 880-4093-41

Date Collected: 07/16/21 08:02

Matrix: Solid

Date Received: 07/19/21 09:40

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 20:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 20:12	1
Total TPH	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	07/20/21 09:45	07/25/21 20:12	1
o-Terphenyl (Surr)	106		70 - 130	07/20/21 09:45	07/25/21 20:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	373		5.01	mg/Kg			07/23/21 13:53	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-4093-1	S-13, 1'	105	99
880-4093-5	S-10, 1'	119	98
880-4093-9	S-9, 1'	100	97
880-4093-13	S-8, 1'	115	96
880-4093-17	S-7, 1'	117	95
880-4093-21	S-6, 1'	112	98
880-4093-25	S-5, 1'	100	100
880-4093-29	S-3, 1'	123	102
880-4093-33	S-4, 1'	115	93
880-4093-37	S-2, 1'	111	95
880-4093-37 MS	S-2, 1'	107	105
880-4093-37 MSD	S-2, 1'	112	106
880-4093-41	S-1, 1'	116	97
LCS 880-5368/1-A	Lab Control Sample	113	110
LCS 880-5369/1-A	Lab Control Sample	110	110
LCSD 880-5368/2-A	Lab Control Sample Dup	106	109
LCSD 880-5369/2-A	Lab Control Sample Dup	112	106
MB 880-5368/5-A	Method Blank	98	98
MB 880-5369/5-A	Method Blank	134 S1+	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-4093-1	S-13, 1'	108	116
880-4093-1 MS	S-13, 1'	92	90
880-4093-1 MSD	S-13, 1'	99	98
880-4093-5	S-10, 1'	106	116
880-4093-9	S-9, 1'	113	121
880-4093-13	S-8, 1'	96	104
880-4093-17	S-7, 1'	113	121
880-4093-21	S-6, 1'	94	105
880-4093-25	S-5, 1'	96	108
880-4093-29	S-3, 1'	94	105
880-4093-33	S-4, 1'	93	106
880-4093-37	S-2, 1'	92	106
880-4093-41	S-1, 1'	91	106
890-959-A-41-E MS	Matrix Spike	85	89
890-959-A-41-F MSD	Matrix Spike Duplicate	90	90
LCS 880-5409/2-A	Lab Control Sample	95	105
LCS 880-5439/2-A	Lab Control Sample	111	112
LCSD 880-5409/3-A	Lab Control Sample Dup	99	107
LCSD 880-5439/3-A	Lab Control Sample Dup	105	104
MB 880-5409/1-A	Method Blank	92	109

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
MB 880-5439/1-A	Method Blank	104	114
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5368/5-A

Matrix: Solid

Analysis Batch: 5419

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5368

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/19/21 11:38	07/20/21 14:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/19/21 11:38	07/20/21 14:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/19/21 11:38	07/20/21 14:37	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/19/21 11:38	07/20/21 14:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/19/21 11:38	07/20/21 14:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/19/21 11:38	07/20/21 14:37	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/19/21 11:38	07/20/21 14:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/19/21 11:38	07/20/21 14:37	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/19/21 11:38	07/20/21 14:37	1

Lab Sample ID: LCS 880-5368/1-A

Matrix: Solid

Analysis Batch: 5419

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1135		mg/Kg		113	70 - 130
Toluene	0.100	0.1058		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130
m,p-Xylenes	0.200	0.2089		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1049		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-5368/2-A

Matrix: Solid

Analysis Batch: 5419

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5368

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1077		mg/Kg		108	70 - 130	5	35
Toluene	0.100	0.09792		mg/Kg		98	70 - 130	8	35
Ethylbenzene	0.100	0.09668		mg/Kg		97	70 - 130	6	35
m,p-Xylenes	0.200	0.1984		mg/Kg		99	70 - 130	5	35
o-Xylene	0.100	0.09904		mg/Kg		99	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-5369/5-A

Matrix: Solid

Analysis Batch: 5419

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5369

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/20/21 11:15	07/21/21 01:25	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-5369/5-A

Matrix: Solid

Analysis Batch: 5419

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5369

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/21 11:15	07/21/21 01:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/21 11:15	07/21/21 01:25	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/20/21 11:15	07/21/21 01:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/21 11:15	07/21/21 01:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/20/21 11:15	07/21/21 01:25	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/20/21 11:15	07/21/21 01:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	07/20/21 11:15	07/21/21 01:25	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/20/21 11:15	07/21/21 01:25	1

Lab Sample ID: LCS 880-5369/1-A

Matrix: Solid

Analysis Batch: 5419

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5369

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1160		mg/Kg		116	70 - 130
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1022		mg/Kg		102	70 - 130
m,p-Xylenes	0.200	0.2044		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1038		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-5369/2-A

Matrix: Solid

Analysis Batch: 5419

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5369

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1075		mg/Kg		107	70 - 130	8	35
Toluene	0.100	0.09440		mg/Kg		94	70 - 130	9	35
Ethylbenzene	0.100	0.09379		mg/Kg		94	70 - 130	9	35
m,p-Xylenes	0.200	0.1970		mg/Kg		98	70 - 130	4	35
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-4093-37 MS

Matrix: Solid

Analysis Batch: 5419

Client Sample ID: S-2, 1'

Prep Type: Total/NA

Prep Batch: 5369

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.100	0.07940		mg/Kg		79	70 - 130
Toluene	<0.00201	U	0.100	0.07095		mg/Kg		71	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-4093-37 MS

Matrix: Solid

Analysis Batch: 5419

Client Sample ID: S-2, 1'

Prep Type: Total/NA

Prep Batch: 5369

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00201	U F1	0.100	0.06633	F1	mg/Kg		66	70 - 130
m,p-Xylenes	<0.00402	U F1	0.201	0.1340	F1	mg/Kg		67	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.06718	F1	mg/Kg		67	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-4093-37 MSD

Matrix: Solid

Analysis Batch: 5419

Client Sample ID: S-2, 1'

Prep Type: Total/NA

Prep Batch: 5369

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.08072		mg/Kg		81	70 - 130	2	35
Toluene	<0.00201	U	0.100	0.07183		mg/Kg		72	70 - 130	1	35
Ethylbenzene	<0.00201	U F1	0.100	0.06818	F1	mg/Kg		68	70 - 130	3	35
m,p-Xylenes	<0.00402	U F1	0.200	0.1382	F1	mg/Kg		69	70 - 130	3	35
o-Xylene	<0.00201	U F1	0.100	0.06917	F1	mg/Kg		69	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-5409/1-A

Matrix: Solid

Analysis Batch: 5629

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5409

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 11:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 11:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 11:26	1
Total TPH	<50.0	U	50.0	mg/Kg		07/20/21 09:45	07/25/21 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	07/20/21 09:45	07/25/21 11:26	1
o-Terphenyl (Surr)	109		70 - 130	07/20/21 09:45	07/25/21 11:26	1

Lab Sample ID: LCS 880-5409/2-A

Matrix: Solid

Analysis Batch: 5629

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	803.4		mg/Kg		80	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-5409/2-A

Matrix: Solid

Analysis Batch: 5629

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (Over C10-C28)	1000	932.2		mg/Kg		93	70 - 130

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-5409/3-A

Matrix: Solid

Analysis Batch: 5629

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5409

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	884.3		mg/Kg		88	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	959.6		mg/Kg		96	70 - 130	3	20

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	107		70 - 130

Lab Sample ID: 890-959-A-41-E MS

Matrix: Solid

Analysis Batch: 5629

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 5409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	839.8		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	926.5		mg/Kg		93	70 - 130

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1-Chlorooctane (Surr)	85		70 - 130
o-Terphenyl (Surr)	89		70 - 130

Lab Sample ID: 890-959-A-41-F MSD

Matrix: Solid

Analysis Batch: 5629

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 5409

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	850.5		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	934.2		mg/Kg		94	70 - 130	1	20

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	90		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-5439/1-A

Matrix: Solid

Analysis Batch: 5655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5439

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 12:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 12:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 12:32	1
Total TPH	<50.0	U	50.0	mg/Kg		07/20/21 15:40	07/26/21 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	07/20/21 15:40	07/26/21 12:32	1
o-Terphenyl (Surr)	114		70 - 130	07/20/21 15:40	07/26/21 12:32	1

Lab Sample ID: LCS 880-5439/2-A

Matrix: Solid

Analysis Batch: 5655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	902.6		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1062		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-5439/3-A

Matrix: Solid

Analysis Batch: 5655

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5439

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	913.1		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	994.1		mg/Kg		99	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	104		70 - 130

Lab Sample ID: 880-4093-1 MS

Matrix: Solid

Analysis Batch: 5655

Client Sample ID: S-13, 1'

Prep Type: Total/NA

Prep Batch: 5439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	880.2		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1026		mg/Kg		103	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-4093-1 MS

Matrix: Solid

Analysis Batch: 5655

Client Sample ID: S-13, 1'

Prep Type: Total/NA

Prep Batch: 5439

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	90		70 - 130

Lab Sample ID: 880-4093-1 MSD

Matrix: Solid

Analysis Batch: 5655

Client Sample ID: S-13, 1'

Prep Type: Total/NA

Prep Batch: 5439

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	947.7		mg/Kg		92	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1125		mg/Kg		113	70 - 130	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	98		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5386/1-A

Matrix: Solid

Analysis Batch: 5503

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/22/21 04:53	1

Lab Sample ID: LCS 880-5386/2-A

Matrix: Solid

Analysis Batch: 5503

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.8		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-5386/3-A

Matrix: Solid

Analysis Batch: 5503

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	251.2		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-4093-1 MS

Matrix: Solid

Analysis Batch: 5503

Client Sample ID: S-13, 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	935	F1	249	1142	F1	mg/Kg		83	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-4093-1 MSD

Matrix: Solid

Analysis Batch: 5503

Client Sample ID: S-13, 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	935	F1	249	1144	F1	mg/Kg		84	90 - 110	0	20

Lab Sample ID: MB 880-5387/1-A

Matrix: Solid

Analysis Batch: 5534

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/22/21 10:52	1

Lab Sample ID: LCS 880-5387/2-A

Matrix: Solid

Analysis Batch: 5534

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	239.6		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-5387/3-A

Matrix: Solid

Analysis Batch: 5534

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	241.4		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 880-4093-A-27-B MS

Matrix: Solid

Analysis Batch: 5534

Client Sample ID: 880-4093-A-27-B MS

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.1		250	247.5		mg/Kg		95	90 - 110

Lab Sample ID: 880-4093-A-27-C MSD

Matrix: Solid

Analysis Batch: 5534

Client Sample ID: 880-4093-A-27-C MSD

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.1		250	258.3		mg/Kg		99	90 - 110	4	20

Lab Sample ID: MB 880-5388/1-A

Matrix: Solid

Analysis Batch: 5550

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/23/21 12:42	1

Lab Sample ID: LCS 880-5388/2-A

Matrix: Solid

Analysis Batch: 5550

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	253.9		mg/Kg		102	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-5388/3-A

Matrix: Solid

Analysis Batch: 5550

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	253.4		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-4093-A-44-C MS

Matrix: Solid

Analysis Batch: 5550

Client Sample ID: 880-4093-A-44-C MS

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	34.4		250	288.8		mg/Kg		102	90 - 110		

Lab Sample ID: 880-4093-A-44-D MSD

Matrix: Solid

Analysis Batch: 5550

Client Sample ID: 880-4093-A-44-D MSD

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	34.4		250	288.8		mg/Kg		102	90 - 110	0	20

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

GC VOA

Prep Batch: 5368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-1	S-13, 1'	Total/NA	Solid	5035	
880-4093-5	S-10, 1'	Total/NA	Solid	5035	
880-4093-9	S-9, 1'	Total/NA	Solid	5035	
880-4093-13	S-8, 1'	Total/NA	Solid	5035	
880-4093-17	S-7, 1'	Total/NA	Solid	5035	
880-4093-21	S-6, 1'	Total/NA	Solid	5035	
880-4093-25	S-5, 1'	Total/NA	Solid	5035	
880-4093-29	S-3, 1'	Total/NA	Solid	5035	
880-4093-33	S-4, 1'	Total/NA	Solid	5035	
MB 880-5368/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5368/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5368/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 5369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-37	S-2, 1'	Total/NA	Solid	5035	
880-4093-41	S-1, 1'	Total/NA	Solid	5035	
MB 880-5369/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5369/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5369/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-4093-37 MS	S-2, 1'	Total/NA	Solid	5035	
880-4093-37 MSD	S-2, 1'	Total/NA	Solid	5035	

Analysis Batch: 5419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-1	S-13, 1'	Total/NA	Solid	8021B	5368
880-4093-5	S-10, 1'	Total/NA	Solid	8021B	5368
880-4093-9	S-9, 1'	Total/NA	Solid	8021B	5368
880-4093-13	S-8, 1'	Total/NA	Solid	8021B	5368
880-4093-17	S-7, 1'	Total/NA	Solid	8021B	5368
880-4093-21	S-6, 1'	Total/NA	Solid	8021B	5368
880-4093-25	S-5, 1'	Total/NA	Solid	8021B	5368
880-4093-29	S-3, 1'	Total/NA	Solid	8021B	5368
880-4093-33	S-4, 1'	Total/NA	Solid	8021B	5368
880-4093-37	S-2, 1'	Total/NA	Solid	8021B	5369
880-4093-41	S-1, 1'	Total/NA	Solid	8021B	5369
MB 880-5368/5-A	Method Blank	Total/NA	Solid	8021B	5368
MB 880-5369/5-A	Method Blank	Total/NA	Solid	8021B	5369
LCS 880-5368/1-A	Lab Control Sample	Total/NA	Solid	8021B	5368
LCS 880-5369/1-A	Lab Control Sample	Total/NA	Solid	8021B	5369
LCSD 880-5368/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5368
LCSD 880-5369/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5369
880-4093-37 MS	S-2, 1'	Total/NA	Solid	8021B	5369
880-4093-37 MSD	S-2, 1'	Total/NA	Solid	8021B	5369

GC Semi VOA

Prep Batch: 5409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-21	S-6, 1'	Total/NA	Solid	8015NM Prep	
880-4093-25	S-5, 1'	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

GC Semi VOA (Continued)

Prep Batch: 5409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-29	S-3, 1'	Total/NA	Solid	8015NM Prep	
880-4093-33	S-4, 1'	Total/NA	Solid	8015NM Prep	
880-4093-37	S-2, 1'	Total/NA	Solid	8015NM Prep	
880-4093-41	S-1, 1'	Total/NA	Solid	8015NM Prep	
MB 880-5409/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5409/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-959-A-41-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-959-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 5439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-1	S-13, 1'	Total/NA	Solid	8015NM Prep	
880-4093-5	S-10, 1'	Total/NA	Solid	8015NM Prep	
880-4093-9	S-9, 1'	Total/NA	Solid	8015NM Prep	
880-4093-13	S-8, 1'	Total/NA	Solid	8015NM Prep	
880-4093-17	S-7, 1'	Total/NA	Solid	8015NM Prep	
MB 880-5439/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5439/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-4093-1 MS	S-13, 1'	Total/NA	Solid	8015NM Prep	
880-4093-1 MSD	S-13, 1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-21	S-6, 1'	Total/NA	Solid	8015B NM	5409
880-4093-25	S-5, 1'	Total/NA	Solid	8015B NM	5409
880-4093-29	S-3, 1'	Total/NA	Solid	8015B NM	5409
880-4093-33	S-4, 1'	Total/NA	Solid	8015B NM	5409
880-4093-37	S-2, 1'	Total/NA	Solid	8015B NM	5409
880-4093-41	S-1, 1'	Total/NA	Solid	8015B NM	5409
MB 880-5409/1-A	Method Blank	Total/NA	Solid	8015B NM	5409
LCS 880-5409/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5409
LCSD 880-5409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5409
890-959-A-41-E MS	Matrix Spike	Total/NA	Solid	8015B NM	5409
890-959-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	5409

Analysis Batch: 5655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-1	S-13, 1'	Total/NA	Solid	8015B NM	5439
880-4093-5	S-10, 1'	Total/NA	Solid	8015B NM	5439
880-4093-9	S-9, 1'	Total/NA	Solid	8015B NM	5439
880-4093-13	S-8, 1'	Total/NA	Solid	8015B NM	5439
880-4093-17	S-7, 1'	Total/NA	Solid	8015B NM	5439
MB 880-5439/1-A	Method Blank	Total/NA	Solid	8015B NM	5439
LCS 880-5439/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5439
LCSD 880-5439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5439
880-4093-1 MS	S-13, 1'	Total/NA	Solid	8015B NM	5439
880-4093-1 MSD	S-13, 1'	Total/NA	Solid	8015B NM	5439

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

HPLC/IC

Leach Batch: 5386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-1	S-13, 1'	Soluble	Solid	DI Leach	
880-4093-2	S-13, 3'	Soluble	Solid	DI Leach	
880-4093-3	S-13, 5'	Soluble	Solid	DI Leach	
880-4093-4	S-13, 10'	Soluble	Solid	DI Leach	
880-4093-5	S-10, 1'	Soluble	Solid	DI Leach	
880-4093-9	S-9, 1'	Soluble	Solid	DI Leach	
880-4093-13	S-8, 1'	Soluble	Solid	DI Leach	
880-4093-17	S-7, 1'	Soluble	Solid	DI Leach	
MB 880-5386/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5386/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5386/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4093-1 MS	S-13, 1'	Soluble	Solid	DI Leach	
880-4093-1 MSD	S-13, 1'	Soluble	Solid	DI Leach	

Leach Batch: 5387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-18	S-7, 3'	Soluble	Solid	DI Leach	
880-4093-19	S-7, 5'	Soluble	Solid	DI Leach	
880-4093-21	S-6, 1'	Soluble	Solid	DI Leach	
880-4093-25	S-5, 1'	Soluble	Solid	DI Leach	
880-4093-26	S-5, 3'	Soluble	Solid	DI Leach	
880-4093-29	S-3, 1'	Soluble	Solid	DI Leach	
880-4093-30	S-3, 3'	Soluble	Solid	DI Leach	
880-4093-33	S-4, 1'	Soluble	Solid	DI Leach	
880-4093-34	S-4, 3'	Soluble	Solid	DI Leach	
MB 880-5387/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5387/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5387/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4093-A-27-B MS	880-4093-A-27-B MS	Soluble	Solid	DI Leach	
880-4093-A-27-C MSD	880-4093-A-27-C MSD	Soluble	Solid	DI Leach	

Leach Batch: 5388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-37	S-2, 1'	Soluble	Solid	DI Leach	
880-4093-41	S-1, 1'	Soluble	Solid	DI Leach	
MB 880-5388/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5388/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5388/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4093-A-44-C MS	880-4093-A-44-C MS	Soluble	Solid	DI Leach	
880-4093-A-44-D MSD	880-4093-A-44-D MSD	Soluble	Solid	DI Leach	

Analysis Batch: 5503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-1	S-13, 1'	Soluble	Solid	300.0	5386
880-4093-2	S-13, 3'	Soluble	Solid	300.0	5386
880-4093-3	S-13, 5'	Soluble	Solid	300.0	5386
880-4093-4	S-13, 10'	Soluble	Solid	300.0	5386
880-4093-5	S-10, 1'	Soluble	Solid	300.0	5386
880-4093-9	S-9, 1'	Soluble	Solid	300.0	5386
880-4093-13	S-8, 1'	Soluble	Solid	300.0	5386
880-4093-17	S-7, 1'	Soluble	Solid	300.0	5386

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

HPLC/IC (Continued)

Analysis Batch: 5503 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5386/1-A	Method Blank	Soluble	Solid	300.0	5386
LCS 880-5386/2-A	Lab Control Sample	Soluble	Solid	300.0	5386
LCSD 880-5386/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5386
880-4093-1 MS	S-13, 1'	Soluble	Solid	300.0	5386
880-4093-1 MSD	S-13, 1'	Soluble	Solid	300.0	5386

Analysis Batch: 5534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-18	S-7, 3'	Soluble	Solid	300.0	5387
880-4093-19	S-7, 5'	Soluble	Solid	300.0	5387
880-4093-21	S-6, 1'	Soluble	Solid	300.0	5387
880-4093-25	S-5, 1'	Soluble	Solid	300.0	5387
880-4093-26	S-5, 3'	Soluble	Solid	300.0	5387
880-4093-29	S-3, 1'	Soluble	Solid	300.0	5387
880-4093-30	S-3, 3'	Soluble	Solid	300.0	5387
880-4093-33	S-4, 1'	Soluble	Solid	300.0	5387
880-4093-34	S-4, 3'	Soluble	Solid	300.0	5387
MB 880-5387/1-A	Method Blank	Soluble	Solid	300.0	5387
LCS 880-5387/2-A	Lab Control Sample	Soluble	Solid	300.0	5387
LCSD 880-5387/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5387
880-4093-A-27-B MS	880-4093-A-27-B MS	Soluble	Solid	300.0	5387
880-4093-A-27-C MSD	880-4093-A-27-C MSD	Soluble	Solid	300.0	5387

Analysis Batch: 5550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4093-37	S-2, 1'	Soluble	Solid	300.0	5388
880-4093-41	S-1, 1'	Soluble	Solid	300.0	5388
MB 880-5388/1-A	Method Blank	Soluble	Solid	300.0	5388
LCS 880-5388/2-A	Lab Control Sample	Soluble	Solid	300.0	5388
LCSD 880-5388/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5388
880-4093-A-44-C MS	880-4093-A-44-C MS	Soluble	Solid	300.0	5388
880-4093-A-44-D MSD	880-4093-A-44-D MSD	Soluble	Solid	300.0	5388

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-13, 1'

Date Collected: 07/15/21 07:52

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5368	07/19/21 11:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5419	07/20/21 19:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5439	07/20/21 15:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5655	07/26/21 13:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5386	07/19/21 13:44	SC	XEN MID
Soluble	Analysis	300.0		1			5503	07/22/21 05:09	CH	XEN MID

Client Sample ID: S-13, 3'

Date Collected: 07/15/21 07:53

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	5386	07/19/21 13:44	SC	XEN MID
Soluble	Analysis	300.0		1			5503	07/22/21 05:25	CH	XEN MID

Client Sample ID: S-13, 5'

Date Collected: 07/15/21 07:54

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	5386	07/19/21 13:44	SC	XEN MID
Soluble	Analysis	300.0		1			5503	07/22/21 05:30	CH	XEN MID

Client Sample ID: S-13, 10'

Date Collected: 07/15/21 07:55

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	5386	07/19/21 13:44	SC	XEN MID
Soluble	Analysis	300.0		1			5503	07/22/21 05:36	CH	XEN MID

Client Sample ID: S-10, 1'

Date Collected: 07/15/21 08:17

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5368	07/19/21 11:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5419	07/20/21 20:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5439	07/20/21 15:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5655	07/26/21 14:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5386	07/19/21 13:44	SC	XEN MID
Soluble	Analysis	300.0		1			5503	07/22/21 05:41	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-9, 1'

Date Collected: 07/15/21 08:47

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5368	07/19/21 11:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5419	07/20/21 20:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5439	07/20/21 15:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5655	07/26/21 15:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5386	07/19/21 13:44	SC	XEN MID
Soluble	Analysis	300.0		5			5503	07/22/21 06:14	CH	XEN MID

Client Sample ID: S-8, 1'

Date Collected: 07/15/21 09:07

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5368	07/19/21 11:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5419	07/20/21 20:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5439	07/20/21 15:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5655	07/26/21 14:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5386	07/19/21 13:44	SC	XEN MID
Soluble	Analysis	300.0		1			5503	07/22/21 06:46	CH	XEN MID

Client Sample ID: S-7, 1'

Date Collected: 07/15/21 09:27

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5368	07/19/21 11:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5419	07/20/21 21:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5439	07/20/21 15:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5655	07/26/21 15:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5386	07/19/21 13:44	SC	XEN MID
Soluble	Analysis	300.0		1			5503	07/22/21 07:18	CH	XEN MID

Client Sample ID: S-7, 3'

Date Collected: 07/15/21 09:28

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	5387	07/19/21 13:47	SC	XEN MID
Soluble	Analysis	300.0		5			5534	07/22/21 11:31	CH	XEN MID

Client Sample ID: S-7, 5'

Date Collected: 07/15/21 09:29

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	5387	07/19/21 13:47	SC	XEN MID
Soluble	Analysis	300.0		1			5534	07/22/21 11:37	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-6, 1'

Date Collected: 07/15/21 10:07

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5368	07/19/21 11:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5419	07/20/21 21:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5409	07/20/21 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5629	07/25/21 18:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5387	07/19/21 13:47	SC	XEN MID
Soluble	Analysis	300.0		1			5534	07/22/21 11:51	CH	XEN MID

Client Sample ID: S-5, 1'

Date Collected: 07/15/21 10:22

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5368	07/19/21 11:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5419	07/20/21 21:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5409	07/20/21 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5629	07/25/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5387	07/19/21 13:47	SC	XEN MID
Soluble	Analysis	300.0		5			5534	07/22/21 12:31	CH	XEN MID

Client Sample ID: S-5, 3'

Date Collected: 07/15/21 10:23

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	5387	07/19/21 13:47	SC	XEN MID
Soluble	Analysis	300.0		1			5534	07/22/21 12:37	CH	XEN MID

Client Sample ID: S-3, 1'

Date Collected: 07/15/21 10:46

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5368	07/19/21 11:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5419	07/20/21 22:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5409	07/20/21 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5629	07/25/21 19:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5387	07/19/21 13:47	SC	XEN MID
Soluble	Analysis	300.0		5			5534	07/22/21 13:10	CH	XEN MID

Client Sample ID: S-3, 3'

Date Collected: 07/15/21 10:47

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	5387	07/19/21 13:47	SC	XEN MID
Soluble	Analysis	300.0		1			5534	07/22/21 13:27	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Client Sample ID: S-4, 1'

Date Collected: 07/15/21 12:17

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-33

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5368	07/19/21 11:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5419	07/20/21 22:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5409	07/20/21 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5629	07/25/21 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5387	07/19/21 13:47	SC	XEN MID
Soluble	Analysis	300.0		5			5534	07/22/21 13:43	CH	XEN MID

Client Sample ID: S-4, 3'

Date Collected: 07/15/21 12:18

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-34

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	5387	07/19/21 13:47	SC	XEN MID
Soluble	Analysis	300.0		1			5534	07/22/21 13:49	CH	XEN MID

Client Sample ID: S-2, 1'

Date Collected: 07/16/21 07:37

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-37

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5369	07/20/21 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5419	07/21/21 01:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5409	07/20/21 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5629	07/25/21 19:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5388	07/19/21 13:50	SC	XEN MID
Soluble	Analysis	300.0		1			5550	07/23/21 13:20	SC	XEN MID

Client Sample ID: S-1, 1'

Date Collected: 07/16/21 08:02

Date Received: 07/19/21 09:40

Lab Sample ID: 880-4093-41

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5369	07/20/21 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5419	07/21/21 02:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5409	07/20/21 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5629	07/25/21 20:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5388	07/19/21 13:50	SC	XEN MID
Soluble	Analysis	300.0		1			5550	07/23/21 13:53	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4093-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-4093-1	S-13, 1'	Solid	07/15/21 07:52	07/19/21 09:40
880-4093-2	S-13, 3'	Solid	07/15/21 07:53	07/19/21 09:40
880-4093-3	S-13, 5'	Solid	07/15/21 07:54	07/19/21 09:40
880-4093-4	S-13, 10'	Solid	07/15/21 07:55	07/19/21 09:40
880-4093-5	S-10, 1'	Solid	07/15/21 08:17	07/19/21 09:40
880-4093-9	S-9, 1'	Solid	07/15/21 08:47	07/19/21 09:40
880-4093-13	S-8, 1'	Solid	07/15/21 09:07	07/19/21 09:40
880-4093-17	S-7, 1'	Solid	07/15/21 09:27	07/19/21 09:40
880-4093-18	S-7, 3'	Solid	07/15/21 09:28	07/19/21 09:40
880-4093-19	S-7, 5'	Solid	07/15/21 09:29	07/19/21 09:40
880-4093-21	S-6, 1'	Solid	07/15/21 10:07	07/19/21 09:40
880-4093-25	S-5, 1'	Solid	07/15/21 10:22	07/19/21 09:40
880-4093-26	S-5, 3'	Solid	07/15/21 10:23	07/19/21 09:40
880-4093-29	S-3, 1'	Solid	07/15/21 10:46	07/19/21 09:40
880-4093-30	S-3, 3'	Solid	07/15/21 10:47	07/19/21 09:40
880-4093-33	S-4, 1'	Solid	07/15/21 12:17	07/19/21 09:40
880-4093-34	S-4, 3'	Solid	07/15/21 12:18	07/19/21 09:40
880-4093-37	S-2, 1'	Solid	07/16/21 07:37	07/19/21 09:40
880-4093-41	S-1, 1'	Solid	07/16/21 08:02	07/19/21 09:40

~~7/27/2021~~ (Rev. 1)

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Varson & Associates, Inc.

Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 7-16-21

PO#:

LAB WORK ORDER#:

PAGE 2 OF 3

PROJECT LOCATION OR NAME:

Palmio 45T

LAI PROJECT #:

21-0105-02 COLLECTOR: MB & TP

CHAIN-OF-CUSTODY

NO

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES		FIELD NOTES
						HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☐ MTBE ☐	
S-8, 10		7-15-21	0910	S	1							
S-7, 1			0927									Analyze chloride to 600 mg/lcp per sample location
S-7, 3			0928									
S-7, 5			0929									
S-7, 10			0930									
S-6, 1			1007									
S-6, 3			1008									
S-6, 5			1009									
S-6, 10			1010									
S-5, 1			1022									
S-5, 3			1023									
S-5, 5			1024									
S-5, 10			1025									
S-3, 1			1046									
S-3, 3			1047									
TOTAL					1							

RELINQUISHED BY (Signature) [Signature] DATE/TIME 7/19 9:40 RECEIVED BY (Signature) [Signature]

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LABORATORY Genito Xenlo

TURN AROUND TIME
NORMAL ☒ 1 DAY ☐
2 DAY ☐ OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 0/0.5 THERM# 128
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
CARRIER BILL #
☒ HAND DELIVERED

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Varson & Associates, Inc.
Environmental Consultants

507 N. Marientfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 7-16-21 PAGE 3 OF 3
PO#: LAB WORK ORDER# 080-4093
PROJECT LOCATION OR NAME: Palmview AST
LAI PROJECT #: 21-0105-02 COLLECTOR: MB + TP

CHAIN-OF-CUSTODY

Nº

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES		FIELD NOTES
						S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	
S-3, 5'		7-15-21	1048	S	1							Analyze chloride to 600 mg/kg per sample location
S-3, 10'			1049									
S-4, 1'			1217									
S-4, 3'			1218									
S-4, 5'			1219									
S-4, 10'			1220									
S-2, 1'		7-16-21	0737									
S-2, 3'			0738									
S-2, 5'			0739									
S-2, 10'			0740									
S-1, 1'			0802									
S-1, 3'			0803									
S-1, 5'			0804									
S-1, 10'			0805									
TOTAL					14							

RELINQUISHED BY (Signature) [Signature] DATE/TIME 7/19/21 RECEIVED BY (Signature) [Signature]

RELINQUISHED BY (Signature) [Signature] DATE/TIME 7/19/21 RECEIVED BY (Signature) [Signature]

RELINQUISHED BY (Signature) [Signature] DATE/TIME 7/19/21 RECEIVED BY (Signature) [Signature]

LABORATORY Genco Xenlo

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 0/0.5 THERM# 128
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☒ CARRIER BILL #
☒ HAND DELIVERED

[illegible]

7/27/2021 (Rev. 1)

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-4093-1

Login Number: 4093

List Source: Eurofins Xenco, Midland

List Number: 1

Creator: Phillips, Kerianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1659-1
Client Project/Site: Palmio AST

For:

Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/10/2021 4:42:30 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1659-1

Table of Contents

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1659-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1659-1

Job ID: 890-1659-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1659-1

Comments

No additional comments.

Receipt

The samples were received on 11/30/2021 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 25.2° C.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-14189 and analytical batch 880-14370 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1659-1

Client Sample ID: S-23 15'

Date Collected: 11/30/21 11:30

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-1

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	418		5.00	mg/Kg			12/10/21 09:28	1

Client Sample ID: S-23 20'

Date Collected: 11/30/21 11:31

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-2

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.2	F1	4.96	mg/Kg			12/10/21 09:36	1

Client Sample ID: S-21 15'

Date Collected: 11/30/21 12:05

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-3

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.9		5.04	mg/Kg			12/09/21 23:49	1

Client Sample ID: S-21 20'

Date Collected: 11/30/21 12:06

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	462		4.98	mg/Kg			12/09/21 23:57	1

Client Sample ID: S-21 25'

Date Collected: 11/30/21 12:07

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-5

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	659		4.95	mg/Kg			12/10/21 08:29	1

Client Sample ID: S-21 30'

Date Collected: 11/30/21 12:08

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-6

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		5.01	mg/Kg			12/10/21 08:54	1

Client Sample ID: S-20 10'

Date Collected: 11/30/21 12:15

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-7

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.97	mg/Kg			12/10/21 09:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1659-1

Client Sample ID: S-20 15'

Date Collected: 11/30/21 12:16

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-8

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	456		5.00	mg/Kg			12/10/21 09:11	1

Client Sample ID: S-20 20'

Date Collected: 11/30/21 12:17

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	943		5.00	mg/Kg			12/10/21 09:19	1

Client Sample ID: S-20 25'

Date Collected: 11/30/21 12:18

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-10

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	252		5.03	mg/Kg			12/10/21 10:01	1

Client Sample ID: S-20 30'

Date Collected: 11/30/21 12:19

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-11

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	218		5.04	mg/Kg			12/10/21 10:09	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1659-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14189/1-A

Matrix: Solid

Analysis Batch: 14370

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/09/21 22:50	1

Lab Sample ID: LCS 880-14189/2-A

Matrix: Solid

Analysis Batch: 14370

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	253.0		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-14189/3-A

Matrix: Solid

Analysis Batch: 14370

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	253.3		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1659-2 MS

Matrix: Solid

Analysis Batch: 14370

Client Sample ID: S-23 20'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	59.2	F1	248	335.3	F1	mg/Kg		111	90 - 110

Lab Sample ID: 890-1659-2 MSD

Matrix: Solid

Analysis Batch: 14370

Client Sample ID: S-23 20'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	59.2	F1	248	331.6		mg/Kg		110	90 - 110	1	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1659-1

HPLC/IC

Leach Batch: 14189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1659-1	S-23 15'	Soluble	Solid	DI Leach	
890-1659-2	S-23 20'	Soluble	Solid	DI Leach	
890-1659-3	S-21 15'	Soluble	Solid	DI Leach	
890-1659-4	S-21 20'	Soluble	Solid	DI Leach	
890-1659-5	S-21 25'	Soluble	Solid	DI Leach	
890-1659-6	S-21 30'	Soluble	Solid	DI Leach	
890-1659-7	S-20 10'	Soluble	Solid	DI Leach	
890-1659-8	S-20 15'	Soluble	Solid	DI Leach	
890-1659-9	S-20 20'	Soluble	Solid	DI Leach	
890-1659-10	S-20 25'	Soluble	Solid	DI Leach	
890-1659-11	S-20 30'	Soluble	Solid	DI Leach	
MB 880-14189/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14189/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14189/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1659-2 MS	S-23 20'	Soluble	Solid	DI Leach	
890-1659-2 MSD	S-23 20'	Soluble	Solid	DI Leach	

Analysis Batch: 14370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1659-1	S-23 15'	Soluble	Solid	300.0	14189
890-1659-2	S-23 20'	Soluble	Solid	300.0	14189
890-1659-3	S-21 15'	Soluble	Solid	300.0	14189
890-1659-4	S-21 20'	Soluble	Solid	300.0	14189
890-1659-5	S-21 25'	Soluble	Solid	300.0	14189
890-1659-6	S-21 30'	Soluble	Solid	300.0	14189
890-1659-7	S-20 10'	Soluble	Solid	300.0	14189
890-1659-8	S-20 15'	Soluble	Solid	300.0	14189
890-1659-9	S-20 20'	Soluble	Solid	300.0	14189
890-1659-10	S-20 25'	Soluble	Solid	300.0	14189
890-1659-11	S-20 30'	Soluble	Solid	300.0	14189
MB 880-14189/1-A	Method Blank	Soluble	Solid	300.0	14189
LCS 880-14189/2-A	Lab Control Sample	Soluble	Solid	300.0	14189
LCSD 880-14189/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14189
890-1659-2 MS	S-23 20'	Soluble	Solid	300.0	14189
890-1659-2 MSD	S-23 20'	Soluble	Solid	300.0	14189

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1659-1

Client Sample ID: S-23 15'

Date Collected: 11/30/21 11:30

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	14189	12/07/21 12:53	CA	XEN MID
Soluble	Analysis	300.0		1			14370	12/10/21 09:28	CH	XEN MID

Client Sample ID: S-23 20'

Date Collected: 11/30/21 11:31

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	14189	12/07/21 12:53	CA	XEN MID
Soluble	Analysis	300.0		1			14370	12/10/21 09:36	CH	XEN MID

Client Sample ID: S-21 15'

Date Collected: 11/30/21 12:05

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	14189	12/07/21 12:53	CA	XEN MID
Soluble	Analysis	300.0		1			14370	12/09/21 23:49	CH	XEN MID

Client Sample ID: S-21 20'

Date Collected: 11/30/21 12:06

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	14189	12/07/21 12:53	CA	XEN MID
Soluble	Analysis	300.0		1			14370	12/09/21 23:57	CH	XEN MID

Client Sample ID: S-21 25'

Date Collected: 11/30/21 12:07

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	14189	12/07/21 12:53	CA	XEN MID
Soluble	Analysis	300.0		1			14370	12/10/21 08:29	CH	XEN MID

Client Sample ID: S-21 30'

Date Collected: 11/30/21 12:08

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	14189	12/07/21 12:53	CA	XEN MID
Soluble	Analysis	300.0		1			14370	12/10/21 08:54	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1659-1

Client Sample ID: S-20 10'

Date Collected: 11/30/21 12:15

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	14189	12/07/21 12:53	CA	XEN MID
Soluble	Analysis	300.0		1			14370	12/10/21 09:02	CH	XEN MID

Client Sample ID: S-20 15'

Date Collected: 11/30/21 12:16

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	14189	12/07/21 12:53	CA	XEN MID
Soluble	Analysis	300.0		1			14370	12/10/21 09:11	CH	XEN MID

Client Sample ID: S-20 20'

Date Collected: 11/30/21 12:17

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	14189	12/07/21 12:53	CA	XEN MID
Soluble	Analysis	300.0		1			14370	12/10/21 09:19	CH	XEN MID

Client Sample ID: S-20 25'

Date Collected: 11/30/21 12:18

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	14189	12/07/21 12:53	CA	XEN MID
Soluble	Analysis	300.0		1			14370	12/10/21 10:01	CH	XEN MID

Client Sample ID: S-20 30'

Date Collected: 11/30/21 12:19

Date Received: 11/30/21 15:25

Lab Sample ID: 890-1659-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	14189	12/07/21 12:53	CA	XEN MID
Soluble	Analysis	300.0		1			14370	12/10/21 10:09	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1659-1

Laboratory: Eurofins Xenco, Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

- 1
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Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1659-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1659-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1659-1	S-23 15'	Solid	11/30/21 11:30	11/30/21 15:25
890-1659-2	S-23 20'	Solid	11/30/21 11:31	11/30/21 15:25
890-1659-3	S-21 15'	Solid	11/30/21 12:05	11/30/21 15:25
890-1659-4	S-21 20'	Solid	11/30/21 12:06	11/30/21 15:25
890-1659-5	S-21 25'	Solid	11/30/21 12:07	11/30/21 15:25
890-1659-6	S-21 30'	Solid	11/30/21 12:08	11/30/21 15:25
890-1659-7	S-20 10'	Solid	11/30/21 12:15	11/30/21 15:25
890-1659-8	S-20 15'	Solid	11/30/21 12:16	11/30/21 15:25
890-1659-9	S-20 20'	Solid	11/30/21 12:17	11/30/21 15:25
890-1659-10	S-20 25'	Solid	11/30/21 12:18	11/30/21 15:25
890-1659-11	S-20 30'	Solid	11/30/21 12:19	11/30/21 15:25

12/10/2021

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1659-1

SDG Number:

Login Number: 1659**List Number: 1****Creator: Olivas, Nathaniel****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1659-1

SDG Number:

Login Number: 1659

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland

List Creation: 12/02/21 11:51 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Confirmation Soil Samples



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-4997-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
8/16/2021 12:08:51 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-4997-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Midland

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Job ID: 880-4997-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-4997-1

Receipt

The samples were received on 8/11/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.3°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-1

Lab Sample ID: 880-4997-1

Date Collected: 08/06/21 11:50

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.114	F2 F1	0.00199	mg/Kg		08/11/21 10:08	08/11/21 14:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 14:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 14:27	1
m,p-Xylenes	0.00398		0.00398	mg/Kg		08/11/21 10:08	08/11/21 14:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 14:27	1
Xylenes, Total	0.00398		0.00398	mg/Kg		08/11/21 10:08	08/11/21 14:27	1
Total BTEX	0.118	F2 F1	0.00398	mg/Kg		08/11/21 10:08	08/11/21 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130	08/11/21 10:08	08/11/21 14:27	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/11/21 10:08	08/11/21 14:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 13:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 13:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 13:04	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	08/11/21 10:19	08/11/21 13:04	1
o-Terphenyl (Surr)	103		70 - 130	08/11/21 10:19	08/11/21 13:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		4.99	mg/Kg			08/14/21 01:29	1

Client Sample ID: C-2

Lab Sample ID: 880-4997-2

Date Collected: 08/06/21 11:51

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 14:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 14:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 14:48	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 14:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 14:48	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 14:48	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/11/21 10:08	08/11/21 14:48	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/11/21 10:08	08/11/21 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 15:54	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-2

Lab Sample ID: 880-4997-2

Date Collected: 08/06/21 11:51

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 15:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 15:54	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 15:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			08/11/21 10:19	08/11/21 15:54	1
o-Terphenyl (Surr)	111		70 - 130			08/11/21 10:19	08/11/21 15:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.4		5.05	mg/Kg			08/14/21 01:44	1

Client Sample ID: C-3

Lab Sample ID: 880-4997-3

Date Collected: 08/06/21 11:52

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 15:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 15:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 15:08	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 15:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 15:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 15:08	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			08/11/21 10:08	08/11/21 15:08	1
1,4-Difluorobenzene (Surr)	88		70 - 130			08/11/21 10:08	08/11/21 15:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 16:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 16:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 16:15	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 16:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			08/11/21 10:19	08/11/21 16:15	1
o-Terphenyl (Surr)	114		70 - 130			08/11/21 10:19	08/11/21 16:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.01	mg/Kg			08/14/21 01:49	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-4

Lab Sample ID: 880-4997-4

Date Collected: 08/06/21 11:53

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 15:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 15:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 15:29	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/11/21 10:08	08/11/21 15:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 15:29	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/11/21 10:08	08/11/21 15:29	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/11/21 10:08	08/11/21 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/11/21 10:08	08/11/21 15:29	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/11/21 10:08	08/11/21 15:29	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 16:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 16:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 16:36	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	08/11/21 10:19	08/11/21 16:36	1
o-Terphenyl (Surr)	92		70 - 130	08/11/21 10:19	08/11/21 16:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		4.95	mg/Kg			08/14/21 01:54	1

Client Sample ID: C-5

Lab Sample ID: 880-4997-5

Date Collected: 08/06/21 11:54

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/11/21 10:08	08/11/21 15:50	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/11/21 10:08	08/11/21 15:50	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/11/21 10:08	08/11/21 15:50	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		08/11/21 10:08	08/11/21 15:50	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/11/21 10:08	08/11/21 15:50	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/11/21 10:08	08/11/21 15:50	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/11/21 10:08	08/11/21 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/11/21 10:08	08/11/21 15:50	1
1,4-Difluorobenzene (Surr)	84		70 - 130	08/11/21 10:08	08/11/21 15:50	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 16:57	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-5

Lab Sample ID: 880-4997-5

Date Collected: 08/06/21 11:54

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 16:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 16:57	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 16:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			08/11/21 10:19	08/11/21 16:57	1
o-Terphenyl (Surr)	104		70 - 130			08/11/21 10:19	08/11/21 16:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	594		4.97	mg/Kg			08/14/21 01:59	1

Client Sample ID: C-6

Lab Sample ID: 880-4997-6

Date Collected: 08/06/21 11:55

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 16:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 16:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 16:10	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 16:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 16:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 16:10	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 16:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			08/11/21 10:08	08/11/21 16:10	1
1,4-Difluorobenzene (Surr)	98		70 - 130			08/11/21 10:08	08/11/21 16:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 17:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 17:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 17:39	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 17:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			08/11/21 10:19	08/11/21 17:39	1
o-Terphenyl (Surr)	90		70 - 130			08/11/21 10:19	08/11/21 17:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	678		4.96	mg/Kg			08/14/21 02:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-7

Lab Sample ID: 880-4997-7

Date Collected: 08/06/21 11:56

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 16:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 16:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 16:31	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 16:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 16:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 16:31	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/11/21 10:08	08/11/21 16:31	1
1,4-Difluorobenzene (Surr)	128		70 - 130	08/11/21 10:08	08/11/21 16:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 18:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 18:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 18:00	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	08/11/21 10:19	08/11/21 18:00	1
o-Terphenyl (Surr)	101		70 - 130	08/11/21 10:19	08/11/21 18:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	408		5.00	mg/Kg			08/14/21 02:19	1

Client Sample ID: C-8

Lab Sample ID: 880-4997-8

Date Collected: 08/06/21 11:57

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 16:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 16:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 16:52	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 16:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 16:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 16:52	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/11/21 10:08	08/11/21 16:52	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/11/21 10:08	08/11/21 16:52	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 18:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-8

Lab Sample ID: 880-4997-8

Date Collected: 08/06/21 11:57

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 18:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 18:21	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 18:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			08/11/21 10:19	08/11/21 18:21	1
o-Terphenyl (Surr)	103		70 - 130			08/11/21 10:19	08/11/21 18:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.6		4.98	mg/Kg			08/14/21 02:24	1

Client Sample ID: C-9

Lab Sample ID: 880-4997-9

Date Collected: 08/06/21 11:58

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 17:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 17:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 17:13	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 17:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 17:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 17:13	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			08/11/21 10:08	08/11/21 17:13	1
1,4-Difluorobenzene (Surr)	97		70 - 130			08/11/21 10:08	08/11/21 17:13	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 18:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 18:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 18:42	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 18:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			08/11/21 10:19	08/11/21 18:42	1
o-Terphenyl (Surr)	117		70 - 130			08/11/21 10:19	08/11/21 18:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		5.00	mg/Kg			08/14/21 02:29	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-10

Lab Sample ID: 880-4997-10

Date Collected: 08/06/21 11:59

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/11/21 10:08	08/11/21 17:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/11/21 10:08	08/11/21 17:33	1
Ethylbenzene	0.00317		0.00202	mg/Kg		08/11/21 10:08	08/11/21 17:33	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		08/11/21 10:08	08/11/21 17:33	1
o-Xylene	0.00229		0.00202	mg/Kg		08/11/21 10:08	08/11/21 17:33	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/11/21 10:08	08/11/21 17:33	1
Total BTEX	0.00546		0.00404	mg/Kg		08/11/21 10:08	08/11/21 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/11/21 10:08	08/11/21 17:33	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/11/21 10:08	08/11/21 17:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 19:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 19:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 19:03	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	08/11/21 10:19	08/11/21 19:03	1
o-Terphenyl (Surr)	109		70 - 130	08/11/21 10:19	08/11/21 19:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	191		5.04	mg/Kg			08/14/21 02:34	1

Client Sample ID: C-11

Lab Sample ID: 880-4997-11

Date Collected: 08/06/21 12:00

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00347		0.00199	mg/Kg		08/11/21 10:08	08/11/21 18:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 18:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 18:56	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 18:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 18:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 18:56	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/11/21 10:08	08/11/21 18:56	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/11/21 10:08	08/11/21 18:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 19:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-11

Lab Sample ID: 880-4997-11

Date Collected: 08/06/21 12:00

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 19:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 19:23	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			08/11/21 10:19	08/11/21 19:23	1
o-Terphenyl (Surr)	118		70 - 130			08/11/21 10:19	08/11/21 19:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	187		5.05	mg/Kg			08/14/21 02:39	1

Client Sample ID: C-12

Lab Sample ID: 880-4997-12

Date Collected: 08/06/21 12:01

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 19:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 19:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 19:16	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/11/21 10:08	08/11/21 19:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 19:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/11/21 10:08	08/11/21 19:16	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/11/21 10:08	08/11/21 19:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			08/11/21 10:08	08/11/21 19:16	1
1,4-Difluorobenzene (Surr)	114		70 - 130			08/11/21 10:08	08/11/21 19:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 19:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 19:43	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 19:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			08/11/21 10:19	08/11/21 19:43	1
o-Terphenyl (Surr)	117		70 - 130			08/11/21 10:19	08/11/21 19:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		4.98	mg/Kg			08/14/21 02:54	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-13

Lab Sample ID: 880-4997-13

Date Collected: 08/06/21 12:02

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00337		0.00201	mg/Kg		08/11/21 10:08	08/11/21 19:37	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/11/21 10:08	08/11/21 19:37	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/11/21 10:08	08/11/21 19:37	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		08/11/21 10:08	08/11/21 19:37	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/11/21 10:08	08/11/21 19:37	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/11/21 10:08	08/11/21 19:37	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		08/11/21 10:08	08/11/21 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/11/21 10:08	08/11/21 19:37	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/11/21 10:08	08/11/21 19:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 20:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 20:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 20:04	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	08/11/21 10:19	08/11/21 20:04	1
o-Terphenyl (Surr)	114		70 - 130	08/11/21 10:19	08/11/21 20:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		4.95	mg/Kg			08/14/21 02:59	1

Client Sample ID: C-14

Lab Sample ID: 880-4997-14

Date Collected: 08/06/21 12:03

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 19:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 19:58	1
Ethylbenzene	0.00201		0.00200	mg/Kg		08/11/21 10:08	08/11/21 19:58	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		08/11/21 10:08	08/11/21 19:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 19:58	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/11/21 10:08	08/11/21 19:58	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/11/21 10:08	08/11/21 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/11/21 10:08	08/11/21 19:58	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/11/21 10:08	08/11/21 19:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 20:24	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-14

Lab Sample ID: 880-4997-14

Date Collected: 08/06/21 12:03

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 20:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 20:24	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 20:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			08/11/21 10:19	08/11/21 20:24	1
o-Terphenyl (Surr)	111		70 - 130			08/11/21 10:19	08/11/21 20:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		5.04	mg/Kg			08/14/21 03:13	1

Client Sample ID: C-15

Lab Sample ID: 880-4997-15

Date Collected: 08/06/21 12:04

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 20:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 20:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 20:18	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		08/11/21 10:08	08/11/21 20:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 20:18	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/11/21 10:08	08/11/21 20:18	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/11/21 10:08	08/11/21 20:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			08/11/21 10:08	08/11/21 20:18	1
1,4-Difluorobenzene (Surr)	111		70 - 130			08/11/21 10:08	08/11/21 20:18	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 20:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 20:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 20:44	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 10:19	08/11/21 20:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			08/11/21 10:19	08/11/21 20:44	1
o-Terphenyl (Surr)	99		70 - 130			08/11/21 10:19	08/11/21 20:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		5.01	mg/Kg			08/14/21 03:18	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-16

Lab Sample ID: 880-4997-16

Date Collected: 08/06/21 12:05

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00339		0.00198	mg/Kg		08/11/21 10:08	08/11/21 20:39	1
Toluene	0.00291		0.00198	mg/Kg		08/11/21 10:08	08/11/21 20:39	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/11/21 10:08	08/11/21 20:39	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		08/11/21 10:08	08/11/21 20:39	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/11/21 10:08	08/11/21 20:39	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/11/21 10:08	08/11/21 20:39	1
Total BTEX	0.00630		0.00396	mg/Kg		08/11/21 10:08	08/11/21 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/11/21 10:08	08/11/21 20:39	1
1,4-Difluorobenzene (Surr)	151	S1+	70 - 130	08/11/21 10:08	08/11/21 20:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 11:40	08/12/21 13:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 11:40	08/12/21 13:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 11:40	08/12/21 13:07	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 11:40	08/12/21 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	08/11/21 11:40	08/12/21 13:07	1
o-Terphenyl (Surr)	99		70 - 130	08/11/21 11:40	08/12/21 13:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	315		4.98	mg/Kg			08/14/21 03:23	1

Client Sample ID: C-17

Lab Sample ID: 880-4997-17

Date Collected: 08/06/21 12:06

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 21:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 21:00	1
Ethylbenzene	0.00273		0.00199	mg/Kg		08/11/21 10:08	08/11/21 21:00	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 21:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 21:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 21:00	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	08/11/21 10:08	08/11/21 21:00	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/11/21 10:08	08/11/21 21:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 20:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-17

Lab Sample ID: 880-4997-17

Date Collected: 08/06/21 12:06

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 20:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 20:48	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 20:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			08/11/21 11:40	08/12/21 20:48	1
o-Terphenyl (Surr)	109		70 - 130			08/11/21 11:40	08/12/21 20:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		4.95	mg/Kg			08/14/21 03:28	1

Client Sample ID: C-18

Lab Sample ID: 880-4997-18

Date Collected: 08/06/21 12:07

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00760		0.00199	mg/Kg		08/11/21 10:08	08/11/21 21:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 21:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 21:20	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 21:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:08	08/11/21 21:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 10:08	08/11/21 21:20	1
Total BTEX	0.00760		0.00398	mg/Kg		08/11/21 10:08	08/11/21 21:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			08/11/21 10:08	08/11/21 21:20	1
1,4-Difluorobenzene (Surr)	94		70 - 130			08/11/21 10:08	08/11/21 21:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 17:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 17:41	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			08/11/21 11:40	08/12/21 17:41	1
o-Terphenyl (Surr)	101		70 - 130			08/11/21 11:40	08/12/21 17:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.3		4.95	mg/Kg			08/14/21 03:33	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-19

Lab Sample ID: 880-4997-19

Date Collected: 08/06/21 12:08

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 21:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 21:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 21:41	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/11/21 10:08	08/11/21 21:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 21:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/11/21 10:08	08/11/21 21:41	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/11/21 10:08	08/11/21 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/11/21 10:08	08/11/21 21:41	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/11/21 10:08	08/11/21 21:41	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 18:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 18:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 18:01	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	08/11/21 11:40	08/12/21 18:01	1
o-Terphenyl (Surr)	99		70 - 130	08/11/21 11:40	08/12/21 18:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		5.00	mg/Kg			08/14/21 03:38	1

Client Sample ID: C-20

Lab Sample ID: 880-4997-20

Date Collected: 08/06/21 12:09

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 22:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 22:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 22:02	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 22:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 22:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 22:02	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	08/11/21 10:08	08/11/21 22:02	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/11/21 10:08	08/11/21 22:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 18:22	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-20

Lab Sample ID: 880-4997-20

Date Collected: 08/06/21 12:09

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 18:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 18:22	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 18:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			08/11/21 11:40	08/12/21 18:22	1
o-Terphenyl (Surr)	99		70 - 130			08/11/21 11:40	08/12/21 18:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	375		5.04	mg/Kg			08/14/21 03:43	1

Client Sample ID: C-21

Lab Sample ID: 880-4997-21

Date Collected: 08/06/21 12:10

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 13:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 13:09	1
Ethylbenzene	0.00315		0.00200	mg/Kg		08/12/21 10:00	08/12/21 13:09	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/12/21 10:00	08/12/21 13:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 13:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/12/21 10:00	08/12/21 13:09	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/12/21 10:00	08/12/21 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			08/12/21 10:00	08/12/21 13:09	1
1,4-Difluorobenzene (Surr)	117		70 - 130			08/12/21 10:00	08/12/21 13:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 16:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 16:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 16:54	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 16:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			08/11/21 15:28	08/12/21 16:54	1
o-Terphenyl (Surr)	131	S1+	70 - 130			08/11/21 15:28	08/12/21 16:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	639	F1	4.98	mg/Kg			08/14/21 04:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-22

Lab Sample ID: 880-4997-22

Date Collected: 08/06/21 12:11

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 17:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 17:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 17:36	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/12/21 10:00	08/12/21 17:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 17:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/21 10:00	08/12/21 17:36	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/12/21 10:00	08/12/21 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/12/21 10:00	08/12/21 17:36	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/12/21 10:00	08/12/21 17:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 17:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 17:14	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	08/11/21 15:28	08/12/21 17:14	1
o-Terphenyl (Surr)	125		70 - 130	08/11/21 15:28	08/12/21 17:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	480		4.99	mg/Kg			08/14/21 04:38	1

Client Sample ID: C-23

Lab Sample ID: 880-4997-23

Date Collected: 08/06/21 12:12

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 17:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 17:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 17:57	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/12/21 10:00	08/12/21 17:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 17:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/21 10:00	08/12/21 17:57	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/12/21 10:00	08/12/21 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/12/21 10:00	08/12/21 17:57	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/12/21 10:00	08/12/21 17:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 17:34	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-23

Lab Sample ID: 880-4997-23

Date Collected: 08/06/21 12:12

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 17:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 17:34	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			08/11/21 15:28	08/12/21 17:34	1
o-Terphenyl (Surr)	125		70 - 130			08/11/21 15:28	08/12/21 17:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		5.05	mg/Kg			08/14/21 04:43	1

Client Sample ID: C-24

Lab Sample ID: 880-4997-24

Date Collected: 08/06/21 12:13

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/12/21 10:00	08/12/21 18:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/12/21 10:00	08/12/21 18:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/12/21 10:00	08/12/21 18:17	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		08/12/21 10:00	08/12/21 18:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/12/21 10:00	08/12/21 18:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/12/21 10:00	08/12/21 18:17	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		08/12/21 10:00	08/12/21 18:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			08/12/21 10:00	08/12/21 18:17	1
1,4-Difluorobenzene (Surr)	85		70 - 130			08/12/21 10:00	08/12/21 18:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 17:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 17:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 17:55	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			08/11/21 15:28	08/12/21 17:55	1
o-Terphenyl (Surr)	98		70 - 130			08/11/21 15:28	08/12/21 17:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		4.97	mg/Kg			08/14/21 04:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-25

Lab Sample ID: 880-4997-25

Date Collected: 08/06/21 12:14

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/12/21 10:00	08/12/21 18:38	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/12/21 10:00	08/12/21 18:38	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/12/21 10:00	08/12/21 18:38	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		08/12/21 10:00	08/12/21 18:38	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/12/21 10:00	08/12/21 18:38	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/12/21 10:00	08/12/21 18:38	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		08/12/21 10:00	08/12/21 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/12/21 10:00	08/12/21 18:38	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/12/21 10:00	08/12/21 18:38	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 18:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 18:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 18:15	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	08/11/21 15:28	08/12/21 18:15	1
o-Terphenyl (Surr)	121		70 - 130	08/11/21 15:28	08/12/21 18:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		4.95	mg/Kg			08/14/21 04:53	1

Client Sample ID: C-26

Lab Sample ID: 880-4997-26

Date Collected: 08/06/21 12:15

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00486		0.00199	mg/Kg		08/12/21 10:00	08/12/21 18:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/21 10:00	08/12/21 18:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/21 10:00	08/12/21 18:58	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/12/21 10:00	08/12/21 18:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/21 10:00	08/12/21 18:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/21 10:00	08/12/21 18:58	1
Total BTEX	0.00486		0.00398	mg/Kg		08/12/21 10:00	08/12/21 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	08/12/21 10:00	08/12/21 18:58	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/12/21 10:00	08/12/21 18:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 18:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-26

Lab Sample ID: 880-4997-26

Date Collected: 08/06/21 12:15

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 18:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 18:35	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			08/11/21 15:28	08/12/21 18:35	1
o-Terphenyl (Surr)	125		70 - 130			08/11/21 15:28	08/12/21 18:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	401		5.01	mg/Kg			08/14/21 05:07	1

Client Sample ID: C-27

Lab Sample ID: 880-4997-27

Date Collected: 08/06/21 12:16

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/12/21 10:00	08/12/21 19:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/12/21 10:00	08/12/21 19:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/12/21 10:00	08/12/21 19:19	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		08/12/21 10:00	08/12/21 19:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/12/21 10:00	08/12/21 19:19	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/12/21 10:00	08/12/21 19:19	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		08/12/21 10:00	08/12/21 19:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			08/12/21 10:00	08/12/21 19:19	1
1,4-Difluorobenzene (Surr)	115		70 - 130			08/12/21 10:00	08/12/21 19:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 18:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 18:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 18:56	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 18:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			08/11/21 15:28	08/12/21 18:56	1
o-Terphenyl (Surr)	124		70 - 130			08/11/21 15:28	08/12/21 18:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		4.95	mg/Kg			08/14/21 05:12	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-28

Lab Sample ID: 880-4997-28

Date Collected: 08/06/21 12:17

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00440		0.00198	mg/Kg		08/12/21 10:00	08/12/21 19:40	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/12/21 10:00	08/12/21 19:40	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/12/21 10:00	08/12/21 19:40	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		08/12/21 10:00	08/12/21 19:40	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/12/21 10:00	08/12/21 19:40	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/12/21 10:00	08/12/21 19:40	1
Total BTEX	0.00440		0.00397	mg/Kg		08/12/21 10:00	08/12/21 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/12/21 10:00	08/12/21 19:40	1
1,4-Difluorobenzene (Surr)	125		70 - 130	08/12/21 10:00	08/12/21 19:40	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 19:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 19:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 19:16	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	08/11/21 15:28	08/12/21 19:16	1
o-Terphenyl (Surr)	126		70 - 130	08/11/21 15:28	08/12/21 19:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		5.01	mg/Kg			08/14/21 05:17	1

Client Sample ID: C-29

Lab Sample ID: 880-4997-29

Date Collected: 08/06/21 12:18

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/12/21 10:00	08/12/21 20:00	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/12/21 10:00	08/12/21 20:00	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/12/21 10:00	08/12/21 20:00	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		08/12/21 10:00	08/12/21 20:00	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/12/21 10:00	08/12/21 20:00	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/12/21 10:00	08/12/21 20:00	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/12/21 10:00	08/12/21 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/12/21 10:00	08/12/21 20:00	1
1,4-Difluorobenzene (Surr)	119		70 - 130	08/12/21 10:00	08/12/21 20:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 19:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-29

Lab Sample ID: 880-4997-29

Date Collected: 08/06/21 12:18

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 19:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 19:36	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			08/11/21 15:28	08/12/21 19:36	1
o-Terphenyl (Surr)	115		70 - 130			08/11/21 15:28	08/12/21 19:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	589		4.98	mg/Kg			08/14/21 05:22	1

Client Sample ID: C-30

Lab Sample ID: 880-4997-30

Date Collected: 08/06/21 12:19

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/12/21 10:00	08/12/21 20:21	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/12/21 10:00	08/12/21 20:21	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/12/21 10:00	08/12/21 20:21	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		08/12/21 10:00	08/12/21 20:21	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/12/21 10:00	08/12/21 20:21	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/12/21 10:00	08/12/21 20:21	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		08/12/21 10:00	08/12/21 20:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			08/12/21 10:00	08/12/21 20:21	1
1,4-Difluorobenzene (Surr)	102		70 - 130			08/12/21 10:00	08/12/21 20:21	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 19:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 19:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 19:57	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 19:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			08/11/21 15:28	08/12/21 19:57	1
o-Terphenyl (Surr)	114		70 - 130			08/11/21 15:28	08/12/21 19:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.5		4.97	mg/Kg			08/14/21 05:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-31

Lab Sample ID: 880-4997-31

Date Collected: 08/06/21 12:20

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00479		0.00199	mg/Kg		08/12/21 10:00	08/12/21 20:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/21 10:00	08/12/21 20:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/21 10:00	08/12/21 20:42	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/12/21 10:00	08/12/21 20:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/21 10:00	08/12/21 20:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/21 10:00	08/12/21 20:42	1
Total BTEX	0.00479		0.00398	mg/Kg		08/12/21 10:00	08/12/21 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/12/21 10:00	08/12/21 20:42	1
1,4-Difluorobenzene (Surr)	118		70 - 130	08/12/21 10:00	08/12/21 20:42	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 17:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 17:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 17:10	1
Total TPH	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	08/12/21 10:01	08/14/21 17:10	1
o-Terphenyl (Surr)	81		70 - 130	08/12/21 10:01	08/14/21 17:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		4.96	mg/Kg			08/14/21 05:32	1

Client Sample ID: C-32

Lab Sample ID: 880-4997-32

Date Collected: 08/06/21 12:21

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		08/12/21 13:00	08/13/21 00:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:00	08/13/21 00:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:00	08/13/21 00:06	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/12/21 13:00	08/13/21 00:06	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:00	08/13/21 00:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/21 13:00	08/13/21 00:06	1
Total BTEX	<0.00398	U *1	0.00398	mg/Kg		08/12/21 13:00	08/13/21 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/12/21 13:00	08/13/21 00:06	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/12/21 13:00	08/13/21 00:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/12/21 10:01	08/14/21 17:32	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-32

Lab Sample ID: 880-4997-32

Date Collected: 08/06/21 12:21

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/12/21 10:01	08/14/21 17:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/12/21 10:01	08/14/21 17:32	1
Total TPH	<49.9	U	49.9	mg/Kg		08/12/21 10:01	08/14/21 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			08/12/21 10:01	08/14/21 17:32	1
o-Terphenyl (Surr)	84		70 - 130			08/12/21 10:01	08/14/21 17:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		4.95	mg/Kg			08/14/21 05:47	1

Client Sample ID: C-33

Lab Sample ID: 880-4997-33

Date Collected: 08/06/21 12:22

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U * - *1	0.00199	mg/Kg		08/12/21 13:00	08/13/21 00:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:00	08/13/21 00:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:00	08/13/21 00:26	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/12/21 13:00	08/13/21 00:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:00	08/13/21 00:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/21 13:00	08/13/21 00:26	1
Total BTEX	<0.00398	U *1	0.00398	mg/Kg		08/12/21 13:00	08/13/21 00:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			08/12/21 13:00	08/13/21 00:26	1
1,4-Difluorobenzene (Surr)	108		70 - 130			08/12/21 13:00	08/13/21 00:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 18:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 18:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 18:43	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 18:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			08/11/21 11:40	08/12/21 18:43	1
o-Terphenyl (Surr)	98		70 - 130			08/11/21 11:40	08/12/21 18:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.2		4.95	mg/Kg			08/14/21 05:52	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-34

Lab Sample ID: 880-4997-34

Date Collected: 08/06/21 12:23

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		08/12/21 13:00	08/13/21 00:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:00	08/13/21 00:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:00	08/13/21 00:47	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/12/21 13:00	08/13/21 00:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:00	08/13/21 00:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/21 13:00	08/13/21 00:47	1
Total BTEX	<0.00398	U *1	0.00398	mg/Kg		08/12/21 13:00	08/13/21 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/12/21 13:00	08/13/21 00:47	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/12/21 13:00	08/13/21 00:47	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 19:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 19:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 19:04	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	08/11/21 11:40	08/12/21 19:04	1
o-Terphenyl (Surr)	94		70 - 130	08/11/21 11:40	08/12/21 19:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.5		5.04	mg/Kg			08/14/21 09:50	1

Client Sample ID: C-35

Lab Sample ID: 880-4997-35

Date Collected: 08/06/21 12:24

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		08/12/21 13:00	08/13/21 01:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:00	08/13/21 01:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:00	08/13/21 01:08	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/12/21 13:00	08/13/21 01:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:00	08/13/21 01:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/21 13:00	08/13/21 01:08	1
Total BTEX	<0.00400	U *1	0.00400	mg/Kg		08/12/21 13:00	08/13/21 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/12/21 13:00	08/13/21 01:08	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/12/21 13:00	08/13/21 01:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 19:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-35

Lab Sample ID: 880-4997-35

Date Collected: 08/06/21 12:24

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 19:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 19:25	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			08/11/21 11:40	08/12/21 19:25	1
o-Terphenyl (Surr)	103		70 - 130			08/11/21 11:40	08/12/21 19:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.7		5.00	mg/Kg			08/14/21 09:55	1

Client Sample ID: C-36

Lab Sample ID: 880-4997-36

Date Collected: 08/06/21 12:25

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202	mg/Kg		08/12/21 13:00	08/13/21 01:28	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:00	08/13/21 01:28	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:00	08/13/21 01:28	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		08/12/21 13:00	08/13/21 01:28	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:00	08/13/21 01:28	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/12/21 13:00	08/13/21 01:28	1
Total BTEX	<0.00404	U *1	0.00404	mg/Kg		08/12/21 13:00	08/13/21 01:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			08/12/21 13:00	08/13/21 01:28	1
1,4-Difluorobenzene (Surr)	91		70 - 130			08/12/21 13:00	08/13/21 01:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 19:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 19:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 19:46	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			08/11/21 11:40	08/12/21 19:46	1
o-Terphenyl (Surr)	93		70 - 130			08/11/21 11:40	08/12/21 19:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	187		4.98	mg/Kg			08/14/21 10:00	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-37

Lab Sample ID: 880-4997-37

Date Collected: 08/06/21 12:26

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202	mg/Kg		08/12/21 13:00	08/13/21 01:49	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:00	08/13/21 01:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:00	08/13/21 01:49	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		08/12/21 13:00	08/13/21 01:49	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:00	08/13/21 01:49	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/12/21 13:00	08/13/21 01:49	1
Total BTEX	<0.00403	U *1	0.00403	mg/Kg		08/12/21 13:00	08/13/21 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/12/21 13:00	08/13/21 01:49	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/12/21 13:00	08/13/21 01:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 20:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 20:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 20:06	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 11:40	08/12/21 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	08/11/21 11:40	08/12/21 20:06	1
o-Terphenyl (Surr)	95		70 - 130	08/11/21 11:40	08/12/21 20:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.6		4.96	mg/Kg			08/14/21 10:05	1

Client Sample ID: C-38

Lab Sample ID: 880-4997-38

Date Collected: 08/06/21 12:27

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		08/12/21 13:00	08/13/21 02:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:00	08/13/21 02:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:00	08/13/21 02:10	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/12/21 13:00	08/13/21 02:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:00	08/13/21 02:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/12/21 13:00	08/13/21 02:10	1
Total BTEX	<0.00399	U *1	0.00399	mg/Kg		08/12/21 13:00	08/13/21 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/12/21 13:00	08/13/21 02:10	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/12/21 13:00	08/13/21 02:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 20:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-38

Lab Sample ID: 880-4997-38

Date Collected: 08/06/21 12:27

Matrix: Solid

Date Received: 08/11/21 09:30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 20:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 20:27	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 11:40	08/12/21 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	08/11/21 11:40	08/12/21 20:27	1
o-Terphenyl (Surr)	104		70 - 130	08/11/21 11:40	08/12/21 20:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		4.97	mg/Kg			08/14/21 10:10	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-4997-1	C-1	168 S1+	104
880-4997-1 MS	C-1	109	110
880-4997-1 MSD	C-1	105	81
880-4997-2	C-2	87	95
880-4997-3	C-3	91	88
880-4997-4	C-4	107	109
880-4997-5	C-5	101	84
880-4997-6	C-6	100	98
880-4997-7	C-7	118	128
880-4997-8	C-8	111	111
880-4997-9	C-9	95	97
880-4997-10	C-10	113	108
880-4997-11	C-11	100	95
880-4997-12	C-12	126	114
880-4997-13	C-13	124	102
880-4997-14	C-14	107	90
880-4997-15	C-15	114	111
880-4997-16	C-16	115	151 S1+
880-4997-17	C-17	131 S1+	103
880-4997-18	C-18	98	94
880-4997-19	C-19	110	97
880-4997-20	C-20	90	87
880-4997-21	C-21	102	117
880-4997-22	C-22	103	97
880-4997-23	C-23	101	87
880-4997-24	C-24	94	85
880-4997-25	C-25	116	94
880-4997-26	C-26	139 S1+	115
880-4997-27	C-27	115	115
880-4997-28	C-28	115	125
880-4997-29	C-29	115	119
880-4997-30	C-30	112	102
880-4997-31	C-31	121	118
880-4997-32	C-32	107	100
880-4997-32 MS	C-32	132 S1+	90
880-4997-33	C-33	119	108
880-4997-34	C-34	106	90
880-4997-35	C-35	98	86
880-4997-36	C-36	103	91
880-4997-37	C-37	104	86
880-4997-38	C-38	124	109
890-1092-A-8-A MS	Matrix Spike	100	85
LCS 880-6379/1-A	Lab Control Sample	98	122
LCS 880-6390/1-A	Lab Control Sample	105	77
LCS 880-6416/1-A	Lab Control Sample	92	64 S1-
LCSD 880-6379/2-A	Lab Control Sample Dup	77	84
LCSD 880-6390/2-A	Lab Control Sample Dup	107	120
LCSD 880-6416/2-A	Lab Control Sample Dup	114	102
MB 880-6379/5-A	Method Blank	97	105

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-4997-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)				
MB 880-6390/5-A	Method Blank	112	114				
MB 880-6416/5-A	Method Blank	116	107				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
880-4997-32 MSD	C-32						
890-1092-A-8-B MSD	Matrix Spike Duplicate						
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)				
880-4997-1	C-1	91	103				
880-4997-1 MS	C-1	91	95				
880-4997-1 MSD	C-1	90	96				
880-4997-2	C-2	90	111				
880-4997-3	C-3	100	114				
880-4997-4	C-4	82	92				
880-4997-5	C-5	89	104				
880-4997-6	C-6	86	90				
880-4997-7	C-7	89	101				
880-4997-8	C-8	93	103				
880-4997-9	C-9	102	117				
880-4997-10	C-10	103	109				
880-4997-11	C-11	102	118				
880-4997-12	C-12	102	117				
880-4997-13	C-13	100	114				
880-4997-14	C-14	97	111				
880-4997-15	C-15	88	99				
880-4997-16	C-16	91	99				
880-4997-16 MS	C-16	90	87				
880-4997-16 MSD	C-16	93	90				
880-4997-17	C-17	100	109				
880-4997-18	C-18	94	101				
880-4997-19	C-19	91	99				
880-4997-20	C-20	92	99				
880-4997-21	C-21	108	131 S1+				
880-4997-22	C-22	106	125				

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-4997-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-4997-23	C-23	105	125
880-4997-24	C-24	93	98
880-4997-25	C-25	104	121
880-4997-26	C-26	105	125
880-4997-27	C-27	105	124
880-4997-28	C-28	107	126
880-4997-29	C-29	101	115
880-4997-30	C-30	101	114
880-4997-31	C-31	81	81
880-4997-32	C-32	81	84
880-4997-33	C-33	92	98
880-4997-34	C-34	88	94
880-4997-35	C-35	96	103
880-4997-36	C-36	88	93
880-4997-37	C-37	89	95
880-4997-38	C-38	97	104
880-5005-A-1-G MS	Matrix Spike	92	94
880-5005-A-1-H MSD	Matrix Spike Duplicate	88	93
890-1081-A-8-D MS	Matrix Spike	98	99
890-1081-A-8-E MSD	Matrix Spike Duplicate	101	97
LCS 880-6382/2-A	Lab Control Sample	78	80
LCS 880-6387/2-A	Lab Control Sample	108	111
LCS 880-6412/2-A	Lab Control Sample	116	134 S1+
LCS 880-6430/2-A	Lab Control Sample	100	109
LCSD 880-6382/3-A	Lab Control Sample Dup	83	87
LCSD 880-6387/3-A	Lab Control Sample Dup	112	109
LCSD 880-6412/3-A	Lab Control Sample Dup	114	126
LCSD 880-6430/3-A	Lab Control Sample Dup	94	98
MB 880-6382/1-A	Method Blank	83	98
MB 880-6387/1-A	Method Blank	92	103
MB 880-6412/1-A	Method Blank	100	127
MB 880-6430/1-A	Method Blank	111	130

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6379/5-A

Matrix: Solid

Analysis Batch: 6386

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6379

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 14:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 14:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 14:05	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 14:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 14:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 14:05	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 14:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/11/21 10:08	08/11/21 14:05	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/11/21 10:08	08/11/21 14:05	1

Lab Sample ID: LCS 880-6379/1-A

Matrix: Solid

Analysis Batch: 6386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1172		mg/Kg		117	70 - 130
Toluene	0.100	0.1006		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130
m,p-Xylenes	0.200	0.1921		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09020		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

Lab Sample ID: LCSD 880-6379/2-A

Matrix: Solid

Analysis Batch: 6386

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6379

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08465		mg/Kg		85	70 - 130	32	35
Toluene	0.100	0.08828		mg/Kg		88	70 - 130	13	35
Ethylbenzene	0.100	0.08600		mg/Kg		86	70 - 130	18	35
m,p-Xylenes	0.200	0.1625		mg/Kg		81	70 - 130	17	35
o-Xylene	0.100	0.07476		mg/Kg		75	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 880-4997-1 MS

Matrix: Solid

Analysis Batch: 6386

Client Sample ID: C-1

Prep Type: Total/NA

Prep Batch: 6379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.114	F2 F1	0.0998	0.1054	F1	mg/Kg		-9	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-4997-1 MS

Matrix: Solid

Analysis Batch: 6386

Client Sample ID: C-1

Prep Type: Total/NA

Prep Batch: 6379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00199	U	0.0998	0.09267		mg/Kg		93	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.09250		mg/Kg		93	70 - 130
m,p-Xylenes	0.00398		0.200	0.1829		mg/Kg		90	70 - 130
o-Xylene	<0.00199	U	0.0998	0.08393		mg/Kg		83	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	109		70 - 130						
1,4-Difluorobenzene (Surr)	110		70 - 130						

Lab Sample ID: 880-4997-1 MSD

Matrix: Solid

Analysis Batch: 6386

Client Sample ID: C-1

Prep Type: Total/NA

Prep Batch: 6379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.114	F2 F1	0.100	0.05478	F2 F1	mg/Kg		-59	70 - 130	63	35
Toluene	<0.00199	U	0.100	0.07898		mg/Kg		79	70 - 130	16	35
Ethylbenzene	<0.00199	U	0.100	0.08282		mg/Kg		83	70 - 130	11	35
m,p-Xylenes	0.00398		0.200	0.1618		mg/Kg		79	70 - 130	12	35
o-Xylene	<0.00199	U	0.100	0.07427		mg/Kg		73	70 - 130	12	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	81		70 - 130								

Lab Sample ID: MB 880-6390/5-A

Matrix: Solid

Analysis Batch: 6429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6390

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 12:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 12:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 12:47	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/12/21 10:00	08/12/21 12:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 12:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/21 10:00	08/12/21 12:47	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/12/21 10:00	08/12/21 12:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			08/12/21 10:00	08/12/21 12:47	1
1,4-Difluorobenzene (Surr)	114		70 - 130			08/12/21 10:00	08/12/21 12:47	1

Lab Sample ID: LCS 880-6390/1-A

Matrix: Solid

Analysis Batch: 6429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1189		mg/Kg		119	70 - 130
Toluene	0.100	0.1125		mg/Kg		113	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-6390/1-A

Matrix: Solid

Analysis Batch: 6429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.1158		mg/Kg		116	70 - 130
m,p-Xylenes	0.200	0.2221		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1039		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: LCSD 880-6390/2-A

Matrix: Solid

Analysis Batch: 6429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6390

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1026		mg/Kg		103	70 - 130	15	35
Toluene	0.100	0.1055		mg/Kg		106	70 - 130	6	35
Ethylbenzene	0.100	0.1080		mg/Kg		108	70 - 130	7	35
m,p-Xylenes	0.200	0.2076		mg/Kg		104	70 - 130	7	35
o-Xylene	0.100	0.1013		mg/Kg		101	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: MB 880-6416/5-A

Matrix: Solid

Analysis Batch: 6429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6416

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:00	08/12/21 23:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:00	08/12/21 23:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:00	08/12/21 23:44	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/12/21 13:00	08/12/21 23:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:00	08/12/21 23:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/21 13:00	08/12/21 23:44	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/12/21 13:00	08/12/21 23:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/12/21 13:00	08/12/21 23:44	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/12/21 13:00	08/12/21 23:44	1

Lab Sample ID: LCS 880-6416/1-A

Matrix: Solid

Analysis Batch: 6429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6416

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.06716	*-	mg/Kg		67	70 - 130
Toluene	0.100	0.08824		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08629		mg/Kg		86	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-6416/1-A

Matrix: Solid

Analysis Batch: 6429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6416

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylenes	0.200	0.1716		mg/Kg		86	70 - 130
o-Xylene	0.100	0.08000		mg/Kg		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130

Lab Sample ID: LCSD 880-6416/2-A

Matrix: Solid

Analysis Batch: 6429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6416

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1020	*1	mg/Kg		102	70 - 130	41	35
Toluene	0.100	0.1063		mg/Kg		106	70 - 130	19	35
Ethylbenzene	0.100	0.1169		mg/Kg		117	70 - 130	30	35
m,p-Xylenes	0.200	0.2218		mg/Kg		111	70 - 130	26	35
o-Xylene	0.100	0.1063		mg/Kg		106	70 - 130	28	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-4997-32 MS

Matrix: Solid

Analysis Batch: 6429

Client Sample ID: C-32

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-4997-32 MSD

Matrix: Solid

Analysis Batch: 6429

Client Sample ID: C-32

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1092-A-8-A MS

Matrix: Solid

Analysis Batch: 6429

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1092-A-8-B MSD

Matrix: Solid

Analysis Batch: 6429

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-6382/1-A

Matrix: Solid

Analysis Batch: 6361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6382

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1	
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane (Surr)	83		70 - 130	08/11/21 10:19	08/11/21 12:00	1			
o-Terphenyl (Surr)	98		70 - 130	08/11/21 10:19	08/11/21 12:00	1			

Lab Sample ID: LCS 880-6382/2-A

Matrix: Solid

Analysis Batch: 6361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6382

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	782.0		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	711.3		mg/Kg		71	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	78		70 - 130
o-Terphenyl (Surr)	80		70 - 130

Lab Sample ID: LCSD 880-6382/3-A

Matrix: Solid

Analysis Batch: 6361

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6382

	Spike	LCSD	LCSD					%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Gasoline Range Organics (GRO)-C6-C10	1000	823.7		mg/Kg		82	70 - 130	5	20		
Diesel Range Organics (Over C10-C28)	1000	775.5		mg/Kg		78	70 - 130	9	20		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	83		70 - 130
o-Terphenyl (Surr)	87		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-4997-1 MS

Matrix: Solid

Analysis Batch: 6361

Client Sample ID: C-1

Prep Type: Total/NA

Prep Batch: 6382

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	922.4		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	969.6		mg/Kg		97	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	91		70 - 130						
o-Terphenyl (Surr)	95		70 - 130						

Lab Sample ID: 880-4997-1 MSD

Matrix: Solid

Analysis Batch: 6361

Client Sample ID: C-1

Prep Type: Total/NA

Prep Batch: 6382

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	922.8		mg/Kg		91	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	961.3		mg/Kg		96	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	90		70 - 130								
o-Terphenyl (Surr)	96		70 - 130								

Lab Sample ID: MB 880-6387/1-A

Matrix: Solid

Analysis Batch: 6434

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6387

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 11:40	08/12/21 12:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 11:40	08/12/21 12:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 11:40	08/12/21 12:03	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 11:40	08/12/21 12:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			08/11/21 11:40	08/12/21 12:03	1
o-Terphenyl (Surr)	103		70 - 130			08/11/21 11:40	08/12/21 12:03	1

Lab Sample ID: LCS 880-6387/2-A

Matrix: Solid

Analysis Batch: 6434

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	907.7		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1092		mg/Kg		109	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-6387/2-A

Matrix: Solid

Analysis Batch: 6434

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6387

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-6387/3-A

Matrix: Solid

Analysis Batch: 6434

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6387

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	894.1		mg/Kg		89	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1088		mg/Kg		109	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	112		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: 880-4997-16 MS

Matrix: Solid

Analysis Batch: 6434

Client Sample ID: C-16

Prep Type: Total/NA

Prep Batch: 6387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	964.3		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1091		mg/Kg		109	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	87		70 - 130

Lab Sample ID: 880-4997-16 MSD

Matrix: Solid

Analysis Batch: 6434

Client Sample ID: C-16

Prep Type: Total/NA

Prep Batch: 6387

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	975.6		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	995	1131		mg/Kg		114	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	93		70 - 130
o-Terphenyl (Surr)	90		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-6412/1-A

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6412

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 11:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 11:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 11:04	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 11:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	08/11/21 15:28	08/12/21 11:04	1
o-Terphenyl (Surr)	127		70 - 130	08/11/21 15:28	08/12/21 11:04	1

Lab Sample ID: LCS 880-6412/2-A

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	975.9		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1080		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	116		70 - 130
o-Terphenyl (Surr)	134	S1+	70 - 130

Lab Sample ID: LCSD 880-6412/3-A

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6412

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	966.1		mg/Kg		97	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1044		mg/Kg		104	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	114		70 - 130
o-Terphenyl (Surr)	126		70 - 130

Lab Sample ID: 890-1081-A-8-D MS

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	898.9		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	868.7		mg/Kg		87	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1081-A-8-D MS

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6412

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: 890-1081-A-8-E MSD

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	933.3		mg/Kg		90	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	878.7		mg/Kg		88	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	101		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: MB 880-6430/1-A

Matrix: Solid

Analysis Batch: 6567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6430

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 11:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 11:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 11:17	1
Total TPH	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 11:17	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	111		70 - 130	08/12/21 10:01	08/14/21 11:17	1
o-Terphenyl (Surr)	130		70 - 130	08/12/21 10:01	08/14/21 11:17	1

Lab Sample ID: LCS 880-6430/2-A

Matrix: Solid

Analysis Batch: 6567

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6430

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	871.6		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	861.9		mg/Kg		86	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-6430/3-A

Matrix: Solid

Analysis Batch: 6567

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6430

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	894.4		mg/Kg		89	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	786.5		mg/Kg		79	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	94		70 - 130						
o-Terphenyl (Surr)	98		70 - 130						

Lab Sample ID: 880-5005-A-1-G MS

Matrix: Solid

Analysis Batch: 6567

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6430

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	883.2		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	817.7		mg/Kg		79	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	92		70 - 130								
o-Terphenyl (Surr)	94		70 - 130								

Lab Sample ID: 880-5005-A-1-H MSD

Matrix: Solid

Analysis Batch: 6567

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6430

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	862.3		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	789.0		mg/Kg		76	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	88		70 - 130								
o-Terphenyl (Surr)	93		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6400/1-A

Matrix: Solid

Analysis Batch: 6562

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/14/21 01:14	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-6400/2-A

Matrix: Solid

Analysis Batch: 6562

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	262.9		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-6400/3-A

Matrix: Solid

Analysis Batch: 6562

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	261.1		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-4997-1 MS

Matrix: Solid

Analysis Batch: 6562

Client Sample ID: C-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	236		250	487.5		mg/Kg		101	90 - 110

Lab Sample ID: 880-4997-1 MSD

Matrix: Solid

Analysis Batch: 6562

Client Sample ID: C-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	236		250	469.8		mg/Kg		94	90 - 110	4	20

Lab Sample ID: 880-4997-11 MS

Matrix: Solid

Analysis Batch: 6562

Client Sample ID: C-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	187		253	460.1		mg/Kg		108	90 - 110

Lab Sample ID: 880-4997-11 MSD

Matrix: Solid

Analysis Batch: 6562

Client Sample ID: C-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	187		253	439.3		mg/Kg		100	90 - 110	5	20

Lab Sample ID: MB 880-6402/1-A

Matrix: Solid

Analysis Batch: 6563

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/14/21 04:08	1

Lab Sample ID: LCS 880-6402/2-A

Matrix: Solid

Analysis Batch: 6563

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	271.6		mg/Kg		109	90 - 110

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-6402/3-A

Matrix: Solid

Analysis Batch: 6563

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	269.7		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 880-4997-21 MS

Matrix: Solid

Analysis Batch: 6563

Client Sample ID: C-21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	639	F1	249	786.4	F1	mg/Kg		59	90 - 110		

Lab Sample ID: 880-4997-21 MSD

Matrix: Solid

Analysis Batch: 6563

Client Sample ID: C-21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	639	F1	249	835.4	F1	mg/Kg		79	90 - 110	6	20

Lab Sample ID: 880-4997-31 MS

Matrix: Solid

Analysis Batch: 6563

Client Sample ID: C-31

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	121		248	370.6		mg/Kg		101	90 - 110		

Lab Sample ID: 880-4997-31 MSD

Matrix: Solid

Analysis Batch: 6563

Client Sample ID: C-31

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	121		248	385.1		mg/Kg		107	90 - 110	4	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

GC VOA

Prep Batch: 6379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-1	C-1	Total/NA	Solid	5035	
880-4997-2	C-2	Total/NA	Solid	5035	
880-4997-3	C-3	Total/NA	Solid	5035	
880-4997-4	C-4	Total/NA	Solid	5035	
880-4997-5	C-5	Total/NA	Solid	5035	
880-4997-6	C-6	Total/NA	Solid	5035	
880-4997-7	C-7	Total/NA	Solid	5035	
880-4997-8	C-8	Total/NA	Solid	5035	
880-4997-9	C-9	Total/NA	Solid	5035	
880-4997-10	C-10	Total/NA	Solid	5035	
880-4997-11	C-11	Total/NA	Solid	5035	
880-4997-12	C-12	Total/NA	Solid	5035	
880-4997-13	C-13	Total/NA	Solid	5035	
880-4997-14	C-14	Total/NA	Solid	5035	
880-4997-15	C-15	Total/NA	Solid	5035	
880-4997-16	C-16	Total/NA	Solid	5035	
880-4997-17	C-17	Total/NA	Solid	5035	
880-4997-18	C-18	Total/NA	Solid	5035	
880-4997-19	C-19	Total/NA	Solid	5035	
880-4997-20	C-20	Total/NA	Solid	5035	
MB 880-6379/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6379/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6379/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-4997-1 MS	C-1	Total/NA	Solid	5035	
880-4997-1 MSD	C-1	Total/NA	Solid	5035	

Analysis Batch: 6386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-1	C-1	Total/NA	Solid	8021B	6379
880-4997-2	C-2	Total/NA	Solid	8021B	6379
880-4997-3	C-3	Total/NA	Solid	8021B	6379
880-4997-4	C-4	Total/NA	Solid	8021B	6379
880-4997-5	C-5	Total/NA	Solid	8021B	6379
880-4997-6	C-6	Total/NA	Solid	8021B	6379
880-4997-7	C-7	Total/NA	Solid	8021B	6379
880-4997-8	C-8	Total/NA	Solid	8021B	6379
880-4997-9	C-9	Total/NA	Solid	8021B	6379
880-4997-10	C-10	Total/NA	Solid	8021B	6379
880-4997-11	C-11	Total/NA	Solid	8021B	6379
880-4997-12	C-12	Total/NA	Solid	8021B	6379
880-4997-13	C-13	Total/NA	Solid	8021B	6379
880-4997-14	C-14	Total/NA	Solid	8021B	6379
880-4997-15	C-15	Total/NA	Solid	8021B	6379
880-4997-16	C-16	Total/NA	Solid	8021B	6379
880-4997-17	C-17	Total/NA	Solid	8021B	6379
880-4997-18	C-18	Total/NA	Solid	8021B	6379
880-4997-19	C-19	Total/NA	Solid	8021B	6379
880-4997-20	C-20	Total/NA	Solid	8021B	6379
MB 880-6379/5-A	Method Blank	Total/NA	Solid	8021B	6379
LCS 880-6379/1-A	Lab Control Sample	Total/NA	Solid	8021B	6379
LCSD 880-6379/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6379

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 6386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-1 MS	C-1	Total/NA	Solid	8021B	6379
880-4997-1 MSD	C-1	Total/NA	Solid	8021B	6379

Prep Batch: 6390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-21	C-21	Total/NA	Solid	5035	
880-4997-22	C-22	Total/NA	Solid	5035	
880-4997-23	C-23	Total/NA	Solid	5035	
880-4997-24	C-24	Total/NA	Solid	5035	
880-4997-25	C-25	Total/NA	Solid	5035	
880-4997-26	C-26	Total/NA	Solid	5035	
880-4997-27	C-27	Total/NA	Solid	5035	
880-4997-28	C-28	Total/NA	Solid	5035	
880-4997-29	C-29	Total/NA	Solid	5035	
880-4997-30	C-30	Total/NA	Solid	5035	
880-4997-31	C-31	Total/NA	Solid	5035	
MB 880-6390/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6390/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6390/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 6416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-32	C-32	Total/NA	Solid	5035	
880-4997-33	C-33	Total/NA	Solid	5035	
880-4997-34	C-34	Total/NA	Solid	5035	
880-4997-35	C-35	Total/NA	Solid	5035	
880-4997-36	C-36	Total/NA	Solid	5035	
880-4997-37	C-37	Total/NA	Solid	5035	
880-4997-38	C-38	Total/NA	Solid	5035	
MB 880-6416/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6416/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6416/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 6429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-21	C-21	Total/NA	Solid	8021B	6390
880-4997-22	C-22	Total/NA	Solid	8021B	6390
880-4997-23	C-23	Total/NA	Solid	8021B	6390
880-4997-24	C-24	Total/NA	Solid	8021B	6390
880-4997-25	C-25	Total/NA	Solid	8021B	6390
880-4997-26	C-26	Total/NA	Solid	8021B	6390
880-4997-27	C-27	Total/NA	Solid	8021B	6390
880-4997-28	C-28	Total/NA	Solid	8021B	6390
880-4997-29	C-29	Total/NA	Solid	8021B	6390
880-4997-30	C-30	Total/NA	Solid	8021B	6390
880-4997-31	C-31	Total/NA	Solid	8021B	6390
880-4997-32	C-32	Total/NA	Solid	8021B	6416
880-4997-33	C-33	Total/NA	Solid	8021B	6416
880-4997-34	C-34	Total/NA	Solid	8021B	6416
880-4997-35	C-35	Total/NA	Solid	8021B	6416
880-4997-36	C-36	Total/NA	Solid	8021B	6416

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 6429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-37	C-37	Total/NA	Solid	8021B	6416
880-4997-38	C-38	Total/NA	Solid	8021B	6416
MB 880-6390/5-A	Method Blank	Total/NA	Solid	8021B	6390
MB 880-6416/5-A	Method Blank	Total/NA	Solid	8021B	6416
LCS 880-6390/1-A	Lab Control Sample	Total/NA	Solid	8021B	6390
LCS 880-6416/1-A	Lab Control Sample	Total/NA	Solid	8021B	6416
LCSD 880-6390/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6390
LCSD 880-6416/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6416
880-4997-32 MS	C-32	Total/NA	Solid	8021B	
880-4997-32 MSD	C-32	Total/NA	Solid	8021B	
890-1092-A-8-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1092-A-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	

GC Semi VOA

Analysis Batch: 6361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-1	C-1	Total/NA	Solid	8015B NM	6382
880-4997-2	C-2	Total/NA	Solid	8015B NM	6382
880-4997-3	C-3	Total/NA	Solid	8015B NM	6382
880-4997-4	C-4	Total/NA	Solid	8015B NM	6382
880-4997-5	C-5	Total/NA	Solid	8015B NM	6382
880-4997-6	C-6	Total/NA	Solid	8015B NM	6382
880-4997-7	C-7	Total/NA	Solid	8015B NM	6382
880-4997-8	C-8	Total/NA	Solid	8015B NM	6382
880-4997-9	C-9	Total/NA	Solid	8015B NM	6382
880-4997-10	C-10	Total/NA	Solid	8015B NM	6382
880-4997-11	C-11	Total/NA	Solid	8015B NM	6382
880-4997-12	C-12	Total/NA	Solid	8015B NM	6382
880-4997-13	C-13	Total/NA	Solid	8015B NM	6382
880-4997-14	C-14	Total/NA	Solid	8015B NM	6382
880-4997-15	C-15	Total/NA	Solid	8015B NM	6382
MB 880-6382/1-A	Method Blank	Total/NA	Solid	8015B NM	6382
LCS 880-6382/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6382
LCSD 880-6382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6382
880-4997-1 MS	C-1	Total/NA	Solid	8015B NM	6382
880-4997-1 MSD	C-1	Total/NA	Solid	8015B NM	6382

Prep Batch: 6382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-1	C-1	Total/NA	Solid	8015NM Prep	
880-4997-2	C-2	Total/NA	Solid	8015NM Prep	
880-4997-3	C-3	Total/NA	Solid	8015NM Prep	
880-4997-4	C-4	Total/NA	Solid	8015NM Prep	
880-4997-5	C-5	Total/NA	Solid	8015NM Prep	
880-4997-6	C-6	Total/NA	Solid	8015NM Prep	
880-4997-7	C-7	Total/NA	Solid	8015NM Prep	
880-4997-8	C-8	Total/NA	Solid	8015NM Prep	
880-4997-9	C-9	Total/NA	Solid	8015NM Prep	
880-4997-10	C-10	Total/NA	Solid	8015NM Prep	
880-4997-11	C-11	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 6382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-12	C-12	Total/NA	Solid	8015NM Prep	
880-4997-13	C-13	Total/NA	Solid	8015NM Prep	
880-4997-14	C-14	Total/NA	Solid	8015NM Prep	
880-4997-15	C-15	Total/NA	Solid	8015NM Prep	
MB 880-6382/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6382/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-4997-1 MS	C-1	Total/NA	Solid	8015NM Prep	
880-4997-1 MSD	C-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 6387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-16	C-16	Total/NA	Solid	8015NM Prep	
880-4997-17	C-17	Total/NA	Solid	8015NM Prep	
880-4997-18	C-18	Total/NA	Solid	8015NM Prep	
880-4997-19	C-19	Total/NA	Solid	8015NM Prep	
880-4997-20	C-20	Total/NA	Solid	8015NM Prep	
880-4997-33	C-33	Total/NA	Solid	8015NM Prep	
880-4997-34	C-34	Total/NA	Solid	8015NM Prep	
880-4997-35	C-35	Total/NA	Solid	8015NM Prep	
880-4997-36	C-36	Total/NA	Solid	8015NM Prep	
880-4997-37	C-37	Total/NA	Solid	8015NM Prep	
880-4997-38	C-38	Total/NA	Solid	8015NM Prep	
MB 880-6387/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6387/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6387/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-4997-16 MS	C-16	Total/NA	Solid	8015NM Prep	
880-4997-16 MSD	C-16	Total/NA	Solid	8015NM Prep	

Prep Batch: 6412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-21	C-21	Total/NA	Solid	8015NM Prep	
880-4997-22	C-22	Total/NA	Solid	8015NM Prep	
880-4997-23	C-23	Total/NA	Solid	8015NM Prep	
880-4997-24	C-24	Total/NA	Solid	8015NM Prep	
880-4997-25	C-25	Total/NA	Solid	8015NM Prep	
880-4997-26	C-26	Total/NA	Solid	8015NM Prep	
880-4997-27	C-27	Total/NA	Solid	8015NM Prep	
880-4997-28	C-28	Total/NA	Solid	8015NM Prep	
880-4997-29	C-29	Total/NA	Solid	8015NM Prep	
880-4997-30	C-30	Total/NA	Solid	8015NM Prep	
MB 880-6412/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6412/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6412/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1081-A-8-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1081-A-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-21	C-21	Total/NA	Solid	8015B NM	6412
880-4997-22	C-22	Total/NA	Solid	8015B NM	6412

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 6425 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-23	C-23	Total/NA	Solid	8015B NM	6412
880-4997-24	C-24	Total/NA	Solid	8015B NM	6412
880-4997-25	C-25	Total/NA	Solid	8015B NM	6412
880-4997-26	C-26	Total/NA	Solid	8015B NM	6412
880-4997-27	C-27	Total/NA	Solid	8015B NM	6412
880-4997-28	C-28	Total/NA	Solid	8015B NM	6412
880-4997-29	C-29	Total/NA	Solid	8015B NM	6412
880-4997-30	C-30	Total/NA	Solid	8015B NM	6412
MB 880-6412/1-A	Method Blank	Total/NA	Solid	8015B NM	6412
LCS 880-6412/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6412
LCSD 880-6412/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6412
890-1081-A-8-D MS	Matrix Spike	Total/NA	Solid	8015B NM	6412
890-1081-A-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6412

Prep Batch: 6430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-31	C-31	Total/NA	Solid	8015NM Prep	
880-4997-32	C-32	Total/NA	Solid	8015NM Prep	
MB 880-6430/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6430/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5005-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5005-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-16	C-16	Total/NA	Solid	8015B NM	6387
880-4997-17	C-17	Total/NA	Solid	8015B NM	6387
880-4997-18	C-18	Total/NA	Solid	8015B NM	6387
880-4997-19	C-19	Total/NA	Solid	8015B NM	6387
880-4997-20	C-20	Total/NA	Solid	8015B NM	6387
880-4997-33	C-33	Total/NA	Solid	8015B NM	6387
880-4997-34	C-34	Total/NA	Solid	8015B NM	6387
880-4997-35	C-35	Total/NA	Solid	8015B NM	6387
880-4997-36	C-36	Total/NA	Solid	8015B NM	6387
880-4997-37	C-37	Total/NA	Solid	8015B NM	6387
880-4997-38	C-38	Total/NA	Solid	8015B NM	6387
MB 880-6387/1-A	Method Blank	Total/NA	Solid	8015B NM	6387
LCS 880-6387/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6387
LCSD 880-6387/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6387
880-4997-16 MS	C-16	Total/NA	Solid	8015B NM	6387
880-4997-16 MSD	C-16	Total/NA	Solid	8015B NM	6387

Analysis Batch: 6567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-31	C-31	Total/NA	Solid	8015B NM	6430
880-4997-32	C-32	Total/NA	Solid	8015B NM	6430
MB 880-6430/1-A	Method Blank	Total/NA	Solid	8015B NM	6430
LCS 880-6430/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6430
LCSD 880-6430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6430
880-5005-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	6430

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 6567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5005-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6430

HPLC/IC

Leach Batch: 6400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-1	C-1	Soluble	Solid	DI Leach	
880-4997-2	C-2	Soluble	Solid	DI Leach	
880-4997-3	C-3	Soluble	Solid	DI Leach	
880-4997-4	C-4	Soluble	Solid	DI Leach	
880-4997-5	C-5	Soluble	Solid	DI Leach	
880-4997-6	C-6	Soluble	Solid	DI Leach	
880-4997-7	C-7	Soluble	Solid	DI Leach	
880-4997-8	C-8	Soluble	Solid	DI Leach	
880-4997-9	C-9	Soluble	Solid	DI Leach	
880-4997-10	C-10	Soluble	Solid	DI Leach	
880-4997-11	C-11	Soluble	Solid	DI Leach	
880-4997-12	C-12	Soluble	Solid	DI Leach	
880-4997-13	C-13	Soluble	Solid	DI Leach	
880-4997-14	C-14	Soluble	Solid	DI Leach	
880-4997-15	C-15	Soluble	Solid	DI Leach	
880-4997-16	C-16	Soluble	Solid	DI Leach	
880-4997-17	C-17	Soluble	Solid	DI Leach	
880-4997-18	C-18	Soluble	Solid	DI Leach	
880-4997-19	C-19	Soluble	Solid	DI Leach	
880-4997-20	C-20	Soluble	Solid	DI Leach	
MB 880-6400/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6400/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6400/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4997-1 MS	C-1	Soluble	Solid	DI Leach	
880-4997-1 MSD	C-1	Soluble	Solid	DI Leach	
880-4997-11 MS	C-11	Soluble	Solid	DI Leach	
880-4997-11 MSD	C-11	Soluble	Solid	DI Leach	

Leach Batch: 6402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-21	C-21	Soluble	Solid	DI Leach	
880-4997-22	C-22	Soluble	Solid	DI Leach	
880-4997-23	C-23	Soluble	Solid	DI Leach	
880-4997-24	C-24	Soluble	Solid	DI Leach	
880-4997-25	C-25	Soluble	Solid	DI Leach	
880-4997-26	C-26	Soluble	Solid	DI Leach	
880-4997-27	C-27	Soluble	Solid	DI Leach	
880-4997-28	C-28	Soluble	Solid	DI Leach	
880-4997-29	C-29	Soluble	Solid	DI Leach	
880-4997-30	C-30	Soluble	Solid	DI Leach	
880-4997-31	C-31	Soluble	Solid	DI Leach	
880-4997-32	C-32	Soluble	Solid	DI Leach	
880-4997-33	C-33	Soluble	Solid	DI Leach	
880-4997-34	C-34	Soluble	Solid	DI Leach	
880-4997-35	C-35	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 6402 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-36	C-36	Soluble	Solid	DI Leach	
880-4997-37	C-37	Soluble	Solid	DI Leach	
880-4997-38	C-38	Soluble	Solid	DI Leach	
MB 880-6402/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6402/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6402/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4997-21 MS	C-21	Soluble	Solid	DI Leach	
880-4997-21 MSD	C-21	Soluble	Solid	DI Leach	
880-4997-31 MS	C-31	Soluble	Solid	DI Leach	
880-4997-31 MSD	C-31	Soluble	Solid	DI Leach	

Analysis Batch: 6562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-1	C-1	Soluble	Solid	300.0	6400
880-4997-2	C-2	Soluble	Solid	300.0	6400
880-4997-3	C-3	Soluble	Solid	300.0	6400
880-4997-4	C-4	Soluble	Solid	300.0	6400
880-4997-5	C-5	Soluble	Solid	300.0	6400
880-4997-6	C-6	Soluble	Solid	300.0	6400
880-4997-7	C-7	Soluble	Solid	300.0	6400
880-4997-8	C-8	Soluble	Solid	300.0	6400
880-4997-9	C-9	Soluble	Solid	300.0	6400
880-4997-10	C-10	Soluble	Solid	300.0	6400
880-4997-11	C-11	Soluble	Solid	300.0	6400
880-4997-12	C-12	Soluble	Solid	300.0	6400
880-4997-13	C-13	Soluble	Solid	300.0	6400
880-4997-14	C-14	Soluble	Solid	300.0	6400
880-4997-15	C-15	Soluble	Solid	300.0	6400
880-4997-16	C-16	Soluble	Solid	300.0	6400
880-4997-17	C-17	Soluble	Solid	300.0	6400
880-4997-18	C-18	Soluble	Solid	300.0	6400
880-4997-19	C-19	Soluble	Solid	300.0	6400
880-4997-20	C-20	Soluble	Solid	300.0	6400
MB 880-6400/1-A	Method Blank	Soluble	Solid	300.0	6400
LCS 880-6400/2-A	Lab Control Sample	Soluble	Solid	300.0	6400
LCSD 880-6400/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6400
880-4997-1 MS	C-1	Soluble	Solid	300.0	6400
880-4997-1 MSD	C-1	Soluble	Solid	300.0	6400
880-4997-11 MS	C-11	Soluble	Solid	300.0	6400
880-4997-11 MSD	C-11	Soluble	Solid	300.0	6400

Analysis Batch: 6563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-21	C-21	Soluble	Solid	300.0	6402
880-4997-22	C-22	Soluble	Solid	300.0	6402
880-4997-23	C-23	Soluble	Solid	300.0	6402
880-4997-24	C-24	Soluble	Solid	300.0	6402
880-4997-25	C-25	Soluble	Solid	300.0	6402
880-4997-26	C-26	Soluble	Solid	300.0	6402
880-4997-27	C-27	Soluble	Solid	300.0	6402
880-4997-28	C-28	Soluble	Solid	300.0	6402

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 6563 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4997-29	C-29	Soluble	Solid	300.0	6402
880-4997-30	C-30	Soluble	Solid	300.0	6402
880-4997-31	C-31	Soluble	Solid	300.0	6402
880-4997-32	C-32	Soluble	Solid	300.0	6402
880-4997-33	C-33	Soluble	Solid	300.0	6402
880-4997-34	C-34	Soluble	Solid	300.0	6402
880-4997-35	C-35	Soluble	Solid	300.0	6402
880-4997-36	C-36	Soluble	Solid	300.0	6402
880-4997-37	C-37	Soluble	Solid	300.0	6402
880-4997-38	C-38	Soluble	Solid	300.0	6402
MB 880-6402/1-A	Method Blank	Soluble	Solid	300.0	6402
LCS 880-6402/2-A	Lab Control Sample	Soluble	Solid	300.0	6402
LCSD 880-6402/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6402
880-4997-21 MS	C-21	Soluble	Solid	300.0	6402
880-4997-21 MSD	C-21	Soluble	Solid	300.0	6402
880-4997-31 MS	C-31	Soluble	Solid	300.0	6402
880-4997-31 MSD	C-31	Soluble	Solid	300.0	6402

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-1

Lab Sample ID: 880-4997-1

Date Collected: 08/06/21 11:50

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 14:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 13:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 01:29	CH	XEN MID

Client Sample ID: C-2

Lab Sample ID: 880-4997-2

Date Collected: 08/06/21 11:51

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 14:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 15:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 01:44	CH	XEN MID

Client Sample ID: C-3

Lab Sample ID: 880-4997-3

Date Collected: 08/06/21 11:52

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 15:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 16:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 01:49	CH	XEN MID

Client Sample ID: C-4

Lab Sample ID: 880-4997-4

Date Collected: 08/06/21 11:53

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 15:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 16:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 01:54	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-5

Lab Sample ID: 880-4997-5

Date Collected: 08/06/21 11:54

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 15:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 16:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 01:59	CH	XEN MID

Client Sample ID: C-6

Lab Sample ID: 880-4997-6

Date Collected: 08/06/21 11:55

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 16:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 17:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 02:14	CH	XEN MID

Client Sample ID: C-7

Lab Sample ID: 880-4997-7

Date Collected: 08/06/21 11:56

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 16:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 18:00	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 02:19	CH	XEN MID

Client Sample ID: C-8

Lab Sample ID: 880-4997-8

Date Collected: 08/06/21 11:57

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 16:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 18:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 02:24	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-9

Lab Sample ID: 880-4997-9

Date Collected: 08/06/21 11:58

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 17:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 18:42	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 02:29	CH	XEN MID

Client Sample ID: C-10

Lab Sample ID: 880-4997-10

Date Collected: 08/06/21 11:59

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 17:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 02:34	CH	XEN MID

Client Sample ID: C-11

Lab Sample ID: 880-4997-11

Date Collected: 08/06/21 12:00

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 18:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 02:39	CH	XEN MID

Client Sample ID: C-12

Lab Sample ID: 880-4997-12

Date Collected: 08/06/21 12:01

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 19:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 19:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 02:54	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-13

Lab Sample ID: 880-4997-13

Date Collected: 08/06/21 12:02

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 19:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 20:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 02:59	CH	XEN MID

Client Sample ID: C-14

Lab Sample ID: 880-4997-14

Date Collected: 08/06/21 12:03

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 19:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 20:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 03:13	CH	XEN MID

Client Sample ID: C-15

Lab Sample ID: 880-4997-15

Date Collected: 08/06/21 12:04

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 20:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6361	08/11/21 20:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 03:18	CH	XEN MID

Client Sample ID: C-16

Lab Sample ID: 880-4997-16

Date Collected: 08/06/21 12:05

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 20:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6387	08/11/21 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6434	08/12/21 13:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 03:23	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-17

Lab Sample ID: 880-4997-17

Date Collected: 08/06/21 12:06

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 21:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6387	08/11/21 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6434	08/12/21 20:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 03:28	CH	XEN MID

Client Sample ID: C-18

Lab Sample ID: 880-4997-18

Date Collected: 08/06/21 12:07

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 21:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6387	08/11/21 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6434	08/12/21 17:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 03:33	CH	XEN MID

Client Sample ID: C-19

Lab Sample ID: 880-4997-19

Date Collected: 08/06/21 12:08

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 21:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6387	08/11/21 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6434	08/12/21 18:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 03:38	CH	XEN MID

Client Sample ID: C-20

Lab Sample ID: 880-4997-20

Date Collected: 08/06/21 12:09

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6379	08/11/21 10:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6386	08/11/21 22:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6387	08/11/21 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6434	08/12/21 18:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6400	08/11/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			6562	08/14/21 03:43	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-21

Lab Sample ID: 880-4997-21

Date Collected: 08/06/21 12:10

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6390	08/12/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/12/21 13:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6425	08/12/21 16:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 04:23	CH	XEN MID

Client Sample ID: C-22

Lab Sample ID: 880-4997-22

Date Collected: 08/06/21 12:11

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6390	08/12/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/12/21 17:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6425	08/12/21 17:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 04:38	CH	XEN MID

Client Sample ID: C-23

Lab Sample ID: 880-4997-23

Date Collected: 08/06/21 12:12

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6390	08/12/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/12/21 17:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6425	08/12/21 17:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 04:43	CH	XEN MID

Client Sample ID: C-24

Lab Sample ID: 880-4997-24

Date Collected: 08/06/21 12:13

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6390	08/12/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/12/21 18:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6425	08/12/21 17:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 04:48	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-25

Lab Sample ID: 880-4997-25

Date Collected: 08/06/21 12:14

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6390	08/12/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/12/21 18:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6425	08/12/21 18:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 04:53	CH	XEN MID

Client Sample ID: C-26

Lab Sample ID: 880-4997-26

Date Collected: 08/06/21 12:15

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6390	08/12/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/12/21 18:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6425	08/12/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 05:07	CH	XEN MID

Client Sample ID: C-27

Lab Sample ID: 880-4997-27

Date Collected: 08/06/21 12:16

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	6390	08/12/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/12/21 19:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6425	08/12/21 18:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 05:12	CH	XEN MID

Client Sample ID: C-28

Lab Sample ID: 880-4997-28

Date Collected: 08/06/21 12:17

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	6390	08/12/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/12/21 19:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6425	08/12/21 19:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 05:17	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-29

Lab Sample ID: 880-4997-29

Date Collected: 08/06/21 12:18

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6390	08/12/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/12/21 20:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6425	08/12/21 19:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 05:22	CH	XEN MID

Client Sample ID: C-30

Lab Sample ID: 880-4997-30

Date Collected: 08/06/21 12:19

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6390	08/12/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/12/21 20:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6425	08/12/21 19:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 05:27	CH	XEN MID

Client Sample ID: C-31

Lab Sample ID: 880-4997-31

Date Collected: 08/06/21 12:20

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6390	08/12/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/12/21 20:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6430	08/12/21 10:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6567	08/14/21 17:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 05:32	CH	XEN MID

Client Sample ID: C-32

Lab Sample ID: 880-4997-32

Date Collected: 08/06/21 12:21

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6416	08/12/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/13/21 00:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6430	08/12/21 10:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6567	08/14/21 17:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 05:47	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-33

Lab Sample ID: 880-4997-33

Date Collected: 08/06/21 12:22

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6416	08/12/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/13/21 00:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6387	08/11/21 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6434	08/12/21 18:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 05:52	CH	XEN MID

Client Sample ID: C-34

Lab Sample ID: 880-4997-34

Date Collected: 08/06/21 12:23

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6416	08/12/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/13/21 00:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6387	08/11/21 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6434	08/12/21 19:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 09:50	CH	XEN MID

Client Sample ID: C-35

Lab Sample ID: 880-4997-35

Date Collected: 08/06/21 12:24

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6416	08/12/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/13/21 01:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6387	08/11/21 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6434	08/12/21 19:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 09:55	CH	XEN MID

Client Sample ID: C-36

Lab Sample ID: 880-4997-36

Date Collected: 08/06/21 12:25

Matrix: Solid

Date Received: 08/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6416	08/12/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/13/21 01:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6387	08/11/21 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6434	08/12/21 19:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 10:00	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Client Sample ID: C-37
Date Collected: 08/06/21 12:26
Date Received: 08/11/21 09:30

Lab Sample ID: 880-4997-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6416	08/12/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/13/21 01:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6387	08/11/21 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6434	08/12/21 20:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 10:05	CH	XEN MID

Client Sample ID: C-38
Date Collected: 08/06/21 12:27
Date Received: 08/11/21 09:30

Lab Sample ID: 880-4997-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6416	08/12/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6429	08/13/21 02:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6387	08/11/21 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6434	08/12/21 20:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6402	08/11/21 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			6563	08/14/21 10:10	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-4997-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-4997-1	C-1	Solid	08/06/21 11:50	08/11/21 09:30
880-4997-2	C-2	Solid	08/06/21 11:51	08/11/21 09:30
880-4997-3	C-3	Solid	08/06/21 11:52	08/11/21 09:30
880-4997-4	C-4	Solid	08/06/21 11:53	08/11/21 09:30
880-4997-5	C-5	Solid	08/06/21 11:54	08/11/21 09:30
880-4997-6	C-6	Solid	08/06/21 11:55	08/11/21 09:30
880-4997-7	C-7	Solid	08/06/21 11:56	08/11/21 09:30
880-4997-8	C-8	Solid	08/06/21 11:57	08/11/21 09:30
880-4997-9	C-9	Solid	08/06/21 11:58	08/11/21 09:30
880-4997-10	C-10	Solid	08/06/21 11:59	08/11/21 09:30
880-4997-11	C-11	Solid	08/06/21 12:00	08/11/21 09:30
880-4997-12	C-12	Solid	08/06/21 12:01	08/11/21 09:30
880-4997-13	C-13	Solid	08/06/21 12:02	08/11/21 09:30
880-4997-14	C-14	Solid	08/06/21 12:03	08/11/21 09:30
880-4997-15	C-15	Solid	08/06/21 12:04	08/11/21 09:30
880-4997-16	C-16	Solid	08/06/21 12:05	08/11/21 09:30
880-4997-17	C-17	Solid	08/06/21 12:06	08/11/21 09:30
880-4997-18	C-18	Solid	08/06/21 12:07	08/11/21 09:30
880-4997-19	C-19	Solid	08/06/21 12:08	08/11/21 09:30
880-4997-20	C-20	Solid	08/06/21 12:09	08/11/21 09:30
880-4997-21	C-21	Solid	08/06/21 12:10	08/11/21 09:30
880-4997-22	C-22	Solid	08/06/21 12:11	08/11/21 09:30
880-4997-23	C-23	Solid	08/06/21 12:12	08/11/21 09:30
880-4997-24	C-24	Solid	08/06/21 12:13	08/11/21 09:30
880-4997-25	C-25	Solid	08/06/21 12:14	08/11/21 09:30
880-4997-26	C-26	Solid	08/06/21 12:15	08/11/21 09:30
880-4997-27	C-27	Solid	08/06/21 12:16	08/11/21 09:30
880-4997-28	C-28	Solid	08/06/21 12:17	08/11/21 09:30
880-4997-29	C-29	Solid	08/06/21 12:18	08/11/21 09:30
880-4997-30	C-30	Solid	08/06/21 12:19	08/11/21 09:30
880-4997-31	C-31	Solid	08/06/21 12:20	08/11/21 09:30
880-4997-32	C-32	Solid	08/06/21 12:21	08/11/21 09:30
880-4997-33	C-33	Solid	08/06/21 12:22	08/11/21 09:30
880-4997-34	C-34	Solid	08/06/21 12:23	08/11/21 09:30
880-4997-35	C-35	Solid	08/06/21 12:24	08/11/21 09:30
880-4997-36	C-36	Solid	08/06/21 12:25	08/11/21 09:30
880-4997-37	C-37	Solid	08/06/21 12:26	08/11/21 09:30
880-4997-38	C-38	Solid	08/06/21 12:27	08/11/21 09:30

[illegible]

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14Loc: 880
4997

No 1376

Larson & Associates, Inc.
Environmental Consultants507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

CHAIN-OF-CUSTODY

Data Reported to

DATE: 8/6/2021 PAGE 2 OF 3
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palma A-1
LAI PROJECT #: _____ COLLECTOR: BSGTRRP report?
☐ Yes ☐ No
TIME ZONE
Time zone/StateS=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHERField
Sample I D

Lab # Date Time Matrix

of Containers

PRESERVATION
HCl
HNO₃
H₂SO₄ ☐ NaOH ☐
ICE
UNPRESSERVED

ANALYSES

BTEX & MTBE ☐
TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐
GASOLINE MOD 8015 ☐
DIESEL - MOD 8015 ☐
OIL - MOD 8015 ☐
VOC 8260 ☐
SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐
8081 PESTICIDES ☐ 8151 HERBICIDES ☐
TBLP PCBs ☐
TCLP - METALS (RCRA) ☐ TCLP VOC ☐
TCLP - PEST ☐ HERB ☐ Semi-VOC ☐
TOTAL METALS (RCRA) ☐ OTHER LIST ☐
LEAD - TOTAL ☐ DW 200.8 ☐ TCLP ☐
RCI ☐ TOX ☐ FLASHPOINT ☐
TDS ☐ TSS ☐ % MOISTURE ☐
pH ☐ HEXAVALENT CHROMIUM ☐
EXPLOSIVES ☐ PECHLORATE ☐
CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐

FIELD NOTES

TOTAL 15

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

LABORATORY XenocTURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐LABORATORY USE ONLY:
RECEIVING TEMP -52/-63 THERM# 128CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED☐ CARRIER BILL # _____☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-4997-1

SDG Number: 21-0105-02

Login Number: 4997

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-5188-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmilo AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
8/23/2021 9:38:23 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Laboratory Job ID: 880-5188-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Midland

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Job ID: 880-5188-1**Laboratory: Eurofins Xenco, Midland****Narrative****Job Narrative
880-5188-1****Receipt**

The samples were received on 8/17/2021 2:17 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6674 and analytical batch 880-6616 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-40 (880-5188-2), C-41 (880-5188-3), C-42 (880-5188-4) and C-44 (880-5188-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-52 (880-5188-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6686 and analytical batch 880-6831 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6761 and analytical batch 880-6806 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-39

Lab Sample ID: 880-5188-1

Date Collected: 08/11/21 09:40

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00327	*- F1 *1	0.00199	mg/Kg		08/17/21 15:20	08/18/21 05:33	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		08/17/21 15:20	08/18/21 05:33	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		08/17/21 15:20	08/18/21 05:33	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		08/17/21 15:20	08/18/21 05:33	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		08/17/21 15:20	08/18/21 05:33	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		08/17/21 15:20	08/18/21 05:33	1
Total BTEX	<0.00398	U F1	0.00398	mg/Kg		08/17/21 15:20	08/18/21 05:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/17/21 15:20	08/18/21 05:33	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/17/21 15:20	08/18/21 05:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	50.0	mg/Kg		08/18/21 16:58	08/20/21 01:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 01:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 01:06	1
Total TPH	<50.0	U F2	50.0	mg/Kg		08/18/21 16:58	08/20/21 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	08/18/21 16:58	08/20/21 01:06	1
o-Terphenyl (Surr)	97		70 - 130	08/18/21 16:58	08/20/21 01:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.2		4.97	mg/Kg			08/21/21 02:12	1

Client Sample ID: C-40

Lab Sample ID: 880-5188-2

Date Collected: 08/11/21 09:41

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00315	*- *1	0.00201	mg/Kg		08/17/21 15:20	08/18/21 05:53	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/17/21 15:20	08/18/21 05:53	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/17/21 15:20	08/18/21 05:53	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		08/17/21 15:20	08/18/21 05:53	1
o-Xylene	0.00276		0.00201	mg/Kg		08/17/21 15:20	08/18/21 05:53	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/17/21 15:20	08/18/21 05:53	1
Total BTEX	0.00591		0.00402	mg/Kg		08/17/21 15:20	08/18/21 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	08/17/21 15:20	08/18/21 05:53	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/17/21 15:20	08/18/21 05:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 02:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-40

Lab Sample ID: 880-5188-2

Date Collected: 08/11/21 09:41

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 02:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 02:05	1
Total TPH	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 02:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			08/18/21 16:58	08/20/21 02:05	1
o-Terphenyl (Surr)	99		70 - 130			08/18/21 16:58	08/20/21 02:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		4.95	mg/Kg			08/21/21 02:18	1

Client Sample ID: C-41

Lab Sample ID: 880-5188-3

Date Collected: 08/11/21 09:42

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202	mg/Kg		08/17/21 15:20	08/18/21 06:14	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/17/21 15:20	08/18/21 06:14	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/17/21 15:20	08/18/21 06:14	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		08/17/21 15:20	08/18/21 06:14	1
o-Xylene	0.00397		0.00202	mg/Kg		08/17/21 15:20	08/18/21 06:14	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/17/21 15:20	08/18/21 06:14	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		08/17/21 15:20	08/18/21 06:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	203	S1+	70 - 130			08/17/21 15:20	08/18/21 06:14	1
1,4-Difluorobenzene (Surr)	175	S1+	70 - 130			08/17/21 15:20	08/18/21 06:14	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 02:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 02:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 02:25	1
Total TPH	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 02:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			08/18/21 16:58	08/20/21 02:25	1
o-Terphenyl (Surr)	97		70 - 130			08/18/21 16:58	08/20/21 02:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		5.04	mg/Kg			08/21/21 02:34	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-42

Lab Sample ID: 880-5188-4

Date Collected: 08/11/21 09:43

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		08/17/21 15:20	08/18/21 06:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 06:35	1
Ethylbenzene	0.00392		0.00200	mg/Kg		08/17/21 15:20	08/18/21 06:35	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/17/21 15:20	08/18/21 06:35	1
o-Xylene	0.00222		0.00200	mg/Kg		08/17/21 15:20	08/18/21 06:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/17/21 15:20	08/18/21 06:35	1
Total BTEX	0.00614		0.00400	mg/Kg		08/17/21 15:20	08/18/21 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	08/17/21 15:20	08/18/21 06:35	1
1,4-Difluorobenzene (Surr)	14	S1-	70 - 130	08/17/21 15:20	08/18/21 06:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 02:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 02:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 02:45	1
Total TPH	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	08/18/21 16:58	08/20/21 02:45	1
o-Terphenyl (Surr)	94		70 - 130	08/18/21 16:58	08/20/21 02:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.7		4.95	mg/Kg			08/21/21 02:40	1

Client Sample ID: C-43

Lab Sample ID: 880-5188-5

Date Collected: 08/11/21 09:44

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		08/17/21 15:20	08/18/21 06:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 06:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 06:55	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/17/21 15:20	08/18/21 06:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 06:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/17/21 15:20	08/18/21 06:55	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/17/21 15:20	08/18/21 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/17/21 15:20	08/18/21 06:55	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/17/21 15:20	08/18/21 06:55	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 03:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-43

Lab Sample ID: 880-5188-5

Date Collected: 08/11/21 09:44

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 03:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 03:05	1
Total TPH	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 03:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			08/18/21 16:58	08/20/21 03:05	1
o-Terphenyl (Surr)	94		70 - 130			08/18/21 16:58	08/20/21 03:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		5.05	mg/Kg			08/21/21 02:46	1

Client Sample ID: C-44

Lab Sample ID: 880-5188-6

Date Collected: 08/11/21 09:45

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *- *1	0.00198	mg/Kg		08/17/21 15:20	08/18/21 07:16	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/17/21 15:20	08/18/21 07:16	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/17/21 15:20	08/18/21 07:16	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		08/17/21 15:20	08/18/21 07:16	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/17/21 15:20	08/18/21 07:16	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/17/21 15:20	08/18/21 07:16	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/17/21 15:20	08/18/21 07:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			08/17/21 15:20	08/18/21 07:16	1
1,4-Difluorobenzene (Surr)	137	S1+	70 - 130			08/17/21 15:20	08/18/21 07:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 03:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 03:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 03:25	1
Total TPH	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 03:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			08/18/21 16:58	08/20/21 03:25	1
o-Terphenyl (Surr)	95		70 - 130			08/18/21 16:58	08/20/21 03:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3730		24.9	mg/Kg			08/21/21 02:51	5

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-45

Lab Sample ID: 880-5188-7

Date Collected: 08/11/21 09:46

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		08/17/21 15:20	08/18/21 07:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/17/21 15:20	08/18/21 07:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/17/21 15:20	08/18/21 07:37	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/17/21 15:20	08/18/21 07:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/17/21 15:20	08/18/21 07:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/17/21 15:20	08/18/21 07:37	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/17/21 15:20	08/18/21 07:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/17/21 15:20	08/18/21 07:37	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/17/21 15:20	08/18/21 07:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 03:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 03:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 03:45	1
Total TPH	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 03:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130	08/18/21 16:58	08/20/21 03:45	1
o-Terphenyl (Surr)	92		70 - 130	08/18/21 16:58	08/20/21 03:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	537		4.99	mg/Kg			08/21/21 02:57	1

Client Sample ID: C-46

Lab Sample ID: 880-5188-8

Date Collected: 08/11/21 09:47

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		08/17/21 15:20	08/18/21 07:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 07:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 07:57	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/17/21 15:20	08/18/21 07:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 07:57	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/17/21 15:20	08/18/21 07:57	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/17/21 15:20	08/18/21 07:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/17/21 15:20	08/18/21 07:57	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/17/21 15:20	08/18/21 07:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 04:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-46

Lab Sample ID: 880-5188-8

Date Collected: 08/11/21 09:47

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 04:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 04:05	1
Total TPH	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 04:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			08/18/21 16:58	08/20/21 04:05	1
o-Terphenyl (Surr)	93		70 - 130			08/18/21 16:58	08/20/21 04:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3610		25.0	mg/Kg			08/21/21 03:02	5

Client Sample ID: C-47

Lab Sample ID: 880-5188-9

Date Collected: 08/11/21 09:48

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		08/17/21 15:20	08/18/21 08:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 08:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 08:18	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/17/21 15:20	08/18/21 08:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 08:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/17/21 15:20	08/18/21 08:18	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/17/21 15:20	08/18/21 08:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			08/17/21 15:20	08/18/21 08:18	1
1,4-Difluorobenzene (Surr)	104		70 - 130			08/17/21 15:20	08/18/21 08:18	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 04:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 04:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 04:25	1
Total TPH	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 04:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			08/18/21 16:58	08/20/21 04:25	1
o-Terphenyl (Surr)	100		70 - 130			08/18/21 16:58	08/20/21 04:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	724		4.98	mg/Kg			08/21/21 03:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-48

Lab Sample ID: 880-5188-10

Date Collected: 08/11/21 09:49

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 11:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 11:33	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 11:33	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		08/18/21 11:30	08/19/21 11:33	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 11:33	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/21 11:30	08/19/21 11:33	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		08/18/21 11:30	08/19/21 11:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/18/21 11:30	08/19/21 11:33	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/18/21 11:30	08/19/21 11:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 04:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 04:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 04:45	1
Total TPH	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	08/18/21 16:58	08/20/21 04:45	1
o-Terphenyl (Surr)	97		70 - 130	08/18/21 16:58	08/20/21 04:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1060		4.99	mg/Kg			08/21/21 03:25	1

Client Sample ID: C-49

Lab Sample ID: 880-5188-11

Date Collected: 08/11/21 09:50

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 13:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 13:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 13:23	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/18/21 11:30	08/19/21 13:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 13:23	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/21 11:30	08/19/21 13:23	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/18/21 11:30	08/19/21 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	08/18/21 11:30	08/19/21 13:23	1
1,4-Difluorobenzene (Surr)	79		70 - 130	08/18/21 11:30	08/19/21 13:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 05:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-49

Lab Sample ID: 880-5188-11

Date Collected: 08/11/21 09:50

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 05:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 05:25	1
Total TPH	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 05:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			08/18/21 16:58	08/20/21 05:25	1
o-Terphenyl (Surr)	102		70 - 130			08/18/21 16:58	08/20/21 05:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	351		4.97	mg/Kg			08/21/21 03:42	1

Client Sample ID: C-50

Lab Sample ID: 880-5188-12

Date Collected: 08/11/21 09:51

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/18/21 11:30	08/19/21 13:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/21 11:30	08/19/21 13:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/21 11:30	08/19/21 13:44	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		08/18/21 11:30	08/19/21 13:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/21 11:30	08/19/21 13:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/21 11:30	08/19/21 13:44	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		08/18/21 11:30	08/19/21 13:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			08/18/21 11:30	08/19/21 13:44	1
1,4-Difluorobenzene (Surr)	106		70 - 130			08/18/21 11:30	08/19/21 13:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 05:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 05:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 05:44	1
Total TPH	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 05:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			08/18/21 16:58	08/20/21 05:44	1
o-Terphenyl (Surr)	100		70 - 130			08/18/21 16:58	08/20/21 05:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		4.95	mg/Kg			08/21/21 03:47	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-51

Lab Sample ID: 880-5188-13

Date Collected: 08/11/21 09:52

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/18/21 11:30	08/19/21 14:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/21 11:30	08/19/21 14:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/21 11:30	08/19/21 14:04	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/18/21 11:30	08/19/21 14:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/21 11:30	08/19/21 14:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/21 11:30	08/19/21 14:04	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/18/21 11:30	08/19/21 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/18/21 11:30	08/19/21 14:04	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/18/21 11:30	08/19/21 14:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 06:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 06:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 06:04	1
Total TPH	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 06:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	08/18/21 16:58	08/20/21 06:04	1
o-Terphenyl (Surr)	98		70 - 130	08/18/21 16:58	08/20/21 06:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	606		5.04	mg/Kg			08/21/21 03:53	1

Client Sample ID: C-52

Lab Sample ID: 880-5188-14

Date Collected: 08/11/21 09:53

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 14:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 14:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 14:24	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/18/21 11:30	08/19/21 14:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 14:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/21 11:30	08/19/21 14:24	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/18/21 11:30	08/19/21 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	08/18/21 11:30	08/19/21 14:24	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/18/21 11:30	08/19/21 14:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 06:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-52

Lab Sample ID: 880-5188-14

Date Collected: 08/11/21 09:53

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 06:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 06:23	1
Total TPH	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 06:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			08/18/21 16:58	08/20/21 06:23	1
o-Terphenyl (Surr)	98		70 - 130			08/18/21 16:58	08/20/21 06:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	388		4.98	mg/Kg			08/21/21 03:58	1

Client Sample ID: C-53

Lab Sample ID: 880-5188-15

Date Collected: 08/11/21 09:54

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 14:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 14:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 14:45	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/18/21 11:30	08/19/21 14:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 14:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/21 11:30	08/19/21 14:45	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/18/21 11:30	08/19/21 14:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			08/18/21 11:30	08/19/21 14:45	1
1,4-Difluorobenzene (Surr)	101		70 - 130			08/18/21 11:30	08/19/21 14:45	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 06:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 06:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 06:43	1
Total TPH	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 06:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			08/18/21 16:58	08/20/21 06:43	1
o-Terphenyl (Surr)	98		70 - 130			08/18/21 16:58	08/20/21 06:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.2		5.01	mg/Kg			08/21/21 04:04	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-54

Lab Sample ID: 880-5188-16

Date Collected: 08/11/21 09:55

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/18/21 11:30	08/19/21 15:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/21 11:30	08/19/21 15:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/21 11:30	08/19/21 15:05	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/18/21 11:30	08/19/21 15:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/21 11:30	08/19/21 15:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/21 11:30	08/19/21 15:05	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/18/21 11:30	08/19/21 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/18/21 11:30	08/19/21 15:05	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/18/21 11:30	08/19/21 15:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 07:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 07:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 07:04	1
Total TPH	<49.9	U	49.9	mg/Kg		08/18/21 16:58	08/20/21 07:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	08/18/21 16:58	08/20/21 07:04	1
o-Terphenyl (Surr)	111		70 - 130	08/18/21 16:58	08/20/21 07:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1930		24.9	mg/Kg			08/21/21 04:10	5

Client Sample ID: C-55

Lab Sample ID: 880-5188-17

Date Collected: 08/11/21 09:56

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 15:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 15:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 15:26	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		08/18/21 11:30	08/19/21 15:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 15:26	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/21 11:30	08/19/21 15:26	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		08/18/21 11:30	08/19/21 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/18/21 11:30	08/19/21 15:26	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/18/21 11:30	08/19/21 15:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 07:24	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-55

Lab Sample ID: 880-5188-17

Date Collected: 08/11/21 09:56

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 07:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 07:24	1
Total TPH	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 07:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			08/18/21 16:58	08/20/21 07:24	1
o-Terphenyl (Surr)	100		70 - 130			08/18/21 16:58	08/20/21 07:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		24.8	mg/Kg			08/21/21 04:15	5

Client Sample ID: C-56

Lab Sample ID: 880-5188-18

Date Collected: 08/11/21 09:57

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 15:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 15:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 15:46	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		08/18/21 11:30	08/19/21 15:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 15:46	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/18/21 11:30	08/19/21 15:46	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/18/21 11:30	08/19/21 15:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			08/18/21 11:30	08/19/21 15:46	1
1,4-Difluorobenzene (Surr)	108		70 - 130			08/18/21 11:30	08/19/21 15:46	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 07:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 07:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 07:45	1
Total TPH	<49.8	U	49.8	mg/Kg		08/18/21 16:58	08/20/21 07:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			08/18/21 16:58	08/20/21 07:45	1
o-Terphenyl (Surr)	96		70 - 130			08/18/21 16:58	08/20/21 07:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2430		25.0	mg/Kg			08/20/21 22:28	5

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-57

Lab Sample ID: 880-5188-19

Date Collected: 08/11/21 09:58

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 16:07	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 16:07	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 16:07	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		08/18/21 11:30	08/19/21 16:07	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 16:07	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/18/21 11:30	08/19/21 16:07	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		08/18/21 11:30	08/19/21 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/18/21 11:30	08/19/21 16:07	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/18/21 11:30	08/19/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 08:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 08:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 08:06	1
Total TPH	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 08:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	08/18/21 16:58	08/20/21 08:06	1
o-Terphenyl (Surr)	100		70 - 130	08/18/21 16:58	08/20/21 08:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2280		24.8	mg/Kg			08/20/21 22:44	5

Client Sample ID: C-58

Lab Sample ID: 880-5188-20

Date Collected: 08/12/21 15:00

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 16:27	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 16:27	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 16:27	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		08/18/21 11:30	08/19/21 16:27	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/21 11:30	08/19/21 16:27	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/21 11:30	08/19/21 16:27	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		08/18/21 11:30	08/19/21 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/18/21 11:30	08/19/21 16:27	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/18/21 11:30	08/19/21 16:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 08:26	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-58

Lab Sample ID: 880-5188-20

Date Collected: 08/12/21 15:00

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 08:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 08:26	1
Total TPH	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 08:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			08/18/21 16:58	08/20/21 08:26	1
o-Terphenyl (Surr)	113		70 - 130			08/18/21 16:58	08/20/21 08:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2120		24.9	mg/Kg			08/20/21 22:50	5

Client Sample ID: C-59

Lab Sample ID: 880-5188-21

Date Collected: 08/12/21 15:01

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *- *1	0.00198	mg/Kg		08/17/21 15:45	08/19/21 10:47	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/17/21 15:45	08/19/21 10:47	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/17/21 15:45	08/19/21 10:47	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		08/17/21 15:45	08/19/21 10:47	1
o-Xylene	0.00204		0.00198	mg/Kg		08/17/21 15:45	08/19/21 10:47	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/17/21 15:45	08/19/21 10:47	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		08/17/21 15:45	08/19/21 10:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			08/17/21 15:45	08/19/21 10:47	1
1,4-Difluorobenzene (Surr)	89		70 - 130			08/17/21 15:45	08/19/21 10:47	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 01:06	1
Diesel Range Organics (Over C10-C28)	62.9		50.0	mg/Kg		08/19/21 09:02	08/20/21 01:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 01:06	1
Total TPH	62.9		50.0	mg/Kg		08/19/21 09:02	08/20/21 01:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			08/19/21 09:02	08/20/21 01:06	1
o-Terphenyl (Surr)	112		70 - 130			08/19/21 09:02	08/20/21 01:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		4.99	mg/Kg			08/20/21 22:56	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-60

Lab Sample ID: 880-5188-22

Date Collected: 08/12/21 15:02

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *- *1	0.00198	mg/Kg		08/17/21 15:45	08/19/21 11:08	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/17/21 15:45	08/19/21 11:08	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/17/21 15:45	08/19/21 11:08	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		08/17/21 15:45	08/19/21 11:08	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/17/21 15:45	08/19/21 11:08	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/17/21 15:45	08/19/21 11:08	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/17/21 15:45	08/19/21 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/17/21 15:45	08/19/21 11:08	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/17/21 15:45	08/19/21 11:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 02:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 02:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 02:05	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	08/19/21 09:02	08/20/21 02:05	1
o-Terphenyl (Surr)	112		70 - 130	08/19/21 09:02	08/20/21 02:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		5.04	mg/Kg			08/20/21 23:01	1

Client Sample ID: C-61

Lab Sample ID: 880-5188-23

Date Collected: 08/12/21 15:03

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	mg/Kg		08/17/21 15:45	08/19/21 11:28	1
Toluene	0.00203		0.00201	mg/Kg		08/17/21 15:45	08/19/21 11:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/17/21 15:45	08/19/21 11:28	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		08/17/21 15:45	08/19/21 11:28	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/17/21 15:45	08/19/21 11:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/17/21 15:45	08/19/21 11:28	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		08/17/21 15:45	08/19/21 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/17/21 15:45	08/19/21 11:28	1
1,4-Difluorobenzene (Surr)	112		70 - 130	08/17/21 15:45	08/19/21 11:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 02:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-61

Lab Sample ID: 880-5188-23

Date Collected: 08/12/21 15:03

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	55.3		49.8	mg/Kg		08/19/21 09:02	08/20/21 02:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 02:25	1
Total TPH	55.3		49.8	mg/Kg		08/19/21 09:02	08/20/21 02:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			08/19/21 09:02	08/20/21 02:25	1
o-Terphenyl (Surr)	126		70 - 130			08/19/21 09:02	08/20/21 02:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870		24.9	mg/Kg			08/20/21 23:18	5

Client Sample ID: C-62

Lab Sample ID: 880-5188-24

Date Collected: 08/12/21 15:04

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		08/17/21 15:45	08/19/21 11:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/17/21 15:45	08/19/21 11:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/17/21 15:45	08/19/21 11:49	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/17/21 15:45	08/19/21 11:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/17/21 15:45	08/19/21 11:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/17/21 15:45	08/19/21 11:49	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/17/21 15:45	08/19/21 11:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			08/17/21 15:45	08/19/21 11:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130			08/17/21 15:45	08/19/21 11:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 02:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 02:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 02:45	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 02:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			08/19/21 09:02	08/20/21 02:45	1
o-Terphenyl (Surr)	111		70 - 130			08/19/21 09:02	08/20/21 02:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.0		5.00	mg/Kg			08/20/21 23:24	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-63

Lab Sample ID: 880-5188-25

Date Collected: 08/12/21 15:05

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		08/17/21 15:45	08/19/21 12:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:45	08/19/21 12:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:45	08/19/21 12:10	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/17/21 15:45	08/19/21 12:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:45	08/19/21 12:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/17/21 15:45	08/19/21 12:10	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/17/21 15:45	08/19/21 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/17/21 15:45	08/19/21 12:10	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/17/21 15:45	08/19/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 03:05	1
Diesel Range Organics (Over C10-C28)	73.9		49.8	mg/Kg		08/19/21 09:02	08/20/21 03:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 03:05	1
Total TPH	73.9		49.8	mg/Kg		08/19/21 09:02	08/20/21 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	08/19/21 09:02	08/20/21 03:05	1
o-Terphenyl (Surr)	103		70 - 130	08/19/21 09:02	08/20/21 03:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.9		5.01	mg/Kg			08/20/21 23:29	1

Client Sample ID: C-64

Lab Sample ID: 880-5188-26

Date Collected: 08/12/21 15:06

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00274	*- *1	0.00198	mg/Kg		08/17/21 15:45	08/19/21 12:30	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/17/21 15:45	08/19/21 12:30	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/17/21 15:45	08/19/21 12:30	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		08/17/21 15:45	08/19/21 12:30	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/17/21 15:45	08/19/21 12:30	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/17/21 15:45	08/19/21 12:30	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/17/21 15:45	08/19/21 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/17/21 15:45	08/19/21 12:30	1
1,4-Difluorobenzene (Surr)	122		70 - 130	08/17/21 15:45	08/19/21 12:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 03:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-64

Lab Sample ID: 880-5188-26

Date Collected: 08/12/21 15:06

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 03:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 03:25	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 03:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			08/19/21 09:02	08/20/21 03:25	1
o-Terphenyl (Surr)	114		70 - 130			08/19/21 09:02	08/20/21 03:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.7		5.05	mg/Kg			08/20/21 23:35	1

Client Sample ID: C-65

Lab Sample ID: 880-5188-27

Date Collected: 08/12/21 15:07

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		08/17/21 15:45	08/19/21 12:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:45	08/19/21 12:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:45	08/19/21 12:51	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/17/21 15:45	08/19/21 12:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:45	08/19/21 12:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/17/21 15:45	08/19/21 12:51	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/17/21 15:45	08/19/21 12:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			08/17/21 15:45	08/19/21 12:51	1
1,4-Difluorobenzene (Surr)	97		70 - 130			08/17/21 15:45	08/19/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 03:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 03:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 03:45	1
Total TPH	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 03:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			08/19/21 09:02	08/20/21 03:45	1
o-Terphenyl (Surr)	111		70 - 130			08/19/21 09:02	08/20/21 03:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		4.98	mg/Kg			08/20/21 23:41	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-66

Lab Sample ID: 880-5188-28

Date Collected: 08/12/21 15:08

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/20/21 08:30	08/21/21 00:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/20/21 08:30	08/21/21 00:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/20/21 08:30	08/21/21 00:48	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/20/21 08:30	08/21/21 00:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/20/21 08:30	08/21/21 00:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/20/21 08:30	08/21/21 00:48	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/20/21 08:30	08/21/21 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/20/21 08:30	08/21/21 00:48	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/20/21 08:30	08/21/21 00:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 04:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 04:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 04:05	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	08/19/21 09:02	08/20/21 04:05	1
o-Terphenyl (Surr)	113		70 - 130	08/19/21 09:02	08/20/21 04:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.1		5.05	mg/Kg			08/20/21 23:46	1

Client Sample ID: C-67

Lab Sample ID: 880-5188-29

Date Collected: 08/12/21 15:09

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/21 08:30	08/21/21 01:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/21 08:30	08/21/21 01:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/21 08:30	08/21/21 01:08	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/20/21 08:30	08/21/21 01:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/21 08:30	08/21/21 01:08	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/20/21 08:30	08/21/21 01:08	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/20/21 08:30	08/21/21 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/20/21 08:30	08/21/21 01:08	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/20/21 08:30	08/21/21 01:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 04:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-67

Lab Sample ID: 880-5188-29

Date Collected: 08/12/21 15:09

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 04:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 04:25	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 04:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			08/19/21 09:02	08/20/21 04:25	1
o-Terphenyl (Surr)	112		70 - 130			08/19/21 09:02	08/20/21 04:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	285		4.98	mg/Kg			08/21/21 00:03	1

Client Sample ID: C-68

Lab Sample ID: 880-5188-30

Date Collected: 08/12/21 15:10

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00357	F1	0.00202	mg/Kg		08/18/21 08:45	08/21/21 12:18	1
Toluene	<0.00202	U F1 F2	0.00202	mg/Kg		08/18/21 08:45	08/21/21 12:18	1
Ethylbenzene	<0.00202	U F1	0.00202	mg/Kg		08/18/21 08:45	08/21/21 12:18	1
m,p-Xylenes	<0.00404	U F1	0.00404	mg/Kg		08/18/21 08:45	08/21/21 12:18	1
o-Xylene	<0.00202	U F1	0.00202	mg/Kg		08/18/21 08:45	08/21/21 12:18	1
Xylenes, Total	<0.00404	U F1	0.00404	mg/Kg		08/18/21 08:45	08/21/21 12:18	1
Total BTEX	<0.00404	U F1 F2	0.00404	mg/Kg		08/18/21 08:45	08/21/21 12:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			08/18/21 08:45	08/21/21 12:18	1
1,4-Difluorobenzene (Surr)	115		70 - 130			08/18/21 08:45	08/21/21 12:18	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 04:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 04:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 04:45	1
Total TPH	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 04:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			08/19/21 09:02	08/20/21 04:45	1
o-Terphenyl (Surr)	112		70 - 130			08/19/21 09:02	08/20/21 04:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	338		4.95	mg/Kg			08/21/21 00:09	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-69

Lab Sample ID: 880-5188-31

Date Collected: 08/12/21 15:11

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 12:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 12:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 12:39	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		08/18/21 08:45	08/21/21 12:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 12:39	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/18/21 08:45	08/21/21 12:39	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/18/21 08:45	08/21/21 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/18/21 08:45	08/21/21 12:39	1
1,4-Difluorobenzene (Surr)	114		70 - 130	08/18/21 08:45	08/21/21 12:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 05:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 05:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 05:25	1
Total TPH	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	08/19/21 09:02	08/20/21 05:25	1
o-Terphenyl (Surr)	112		70 - 130	08/19/21 09:02	08/20/21 05:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		5.00	mg/Kg			08/21/21 00:25	1

Client Sample ID: C-70

Lab Sample ID: 880-5188-32

Date Collected: 08/12/21 15:12

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 12:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 12:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 12:59	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		08/18/21 08:45	08/21/21 12:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 12:59	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/18/21 08:45	08/21/21 12:59	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/18/21 08:45	08/21/21 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	08/18/21 08:45	08/21/21 12:59	1
1,4-Difluorobenzene (Surr)	74		70 - 130	08/18/21 08:45	08/21/21 12:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 05:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-70

Lab Sample ID: 880-5188-32

Date Collected: 08/12/21 15:12

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 05:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 05:44	1
Total TPH	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 05:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			08/19/21 09:02	08/20/21 05:44	1
o-Terphenyl (Surr)	118		70 - 130			08/19/21 09:02	08/20/21 05:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		5.00	mg/Kg			08/21/21 00:31	1

Client Sample ID: C-71

Lab Sample ID: 880-5188-33

Date Collected: 08/12/21 15:13

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 13:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 13:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 13:20	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/18/21 08:45	08/21/21 13:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 13:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/21 08:45	08/21/21 13:20	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/18/21 08:45	08/21/21 13:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			08/18/21 08:45	08/21/21 13:20	1
1,4-Difluorobenzene (Surr)	108		70 - 130			08/18/21 08:45	08/21/21 13:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 06:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 06:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 06:04	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 06:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			08/19/21 09:02	08/20/21 06:04	1
o-Terphenyl (Surr)	114		70 - 130			08/19/21 09:02	08/20/21 06:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		5.04	mg/Kg			08/21/21 00:37	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-72

Lab Sample ID: 880-5188-34

Date Collected: 08/12/21 15:14

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/18/21 08:45	08/21/21 13:41	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/21 08:45	08/21/21 13:41	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/21 08:45	08/21/21 13:41	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		08/18/21 08:45	08/21/21 13:41	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/21 08:45	08/21/21 13:41	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/21 08:45	08/21/21 13:41	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		08/18/21 08:45	08/21/21 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	08/18/21 08:45	08/21/21 13:41	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/18/21 08:45	08/21/21 13:41	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 06:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 06:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 06:23	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 06:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	08/19/21 09:02	08/20/21 06:23	1
o-Terphenyl (Surr)	114		70 - 130	08/19/21 09:02	08/20/21 06:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1420		4.98	mg/Kg			08/21/21 00:42	1

Client Sample ID: C-73

Lab Sample ID: 880-5188-35

Date Collected: 08/12/21 15:15

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/18/21 08:45	08/21/21 14:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/21 08:45	08/21/21 14:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/21 08:45	08/21/21 14:02	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/18/21 08:45	08/21/21 14:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/21 08:45	08/21/21 14:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/21 08:45	08/21/21 14:02	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/18/21 08:45	08/21/21 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/18/21 08:45	08/21/21 14:02	1
1,4-Difluorobenzene (Surr)	82		70 - 130	08/18/21 08:45	08/21/21 14:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 06:43	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-73

Lab Sample ID: 880-5188-35

Date Collected: 08/12/21 15:15

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 06:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 06:43	1
Total TPH	<49.8	U	49.8	mg/Kg		08/19/21 09:02	08/20/21 06:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			08/19/21 09:02	08/20/21 06:43	1
o-Terphenyl (Surr)	109		70 - 130			08/19/21 09:02	08/20/21 06:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280		4.97	mg/Kg			08/21/21 00:48	1

Client Sample ID: C-74

Lab Sample ID: 880-5188-36

Date Collected: 08/12/21 15:16

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 14:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 14:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 14:23	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/18/21 08:45	08/21/21 14:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 14:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/21 08:45	08/21/21 14:23	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/18/21 08:45	08/21/21 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			08/18/21 08:45	08/21/21 14:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130			08/18/21 08:45	08/21/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 07:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 07:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 07:04	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 09:02	08/20/21 07:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			08/19/21 09:02	08/20/21 07:04	1
o-Terphenyl (Surr)	126		70 - 130			08/19/21 09:02	08/20/21 07:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		4.95	mg/Kg			08/21/21 00:53	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-75

Lab Sample ID: 880-5188-37

Date Collected: 08/12/21 15:17

Matrix: Solid

Date Received: 08/17/21 14:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 14:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 14:44	1
Ethylbenzene	0.00206		0.00200	mg/Kg		08/18/21 08:45	08/21/21 14:44	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/18/21 08:45	08/21/21 14:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 14:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/21 08:45	08/21/21 14:44	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/18/21 08:45	08/21/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/18/21 08:45	08/21/21 14:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/18/21 08:45	08/21/21 14:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 07:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 07:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 07:24	1
Total TPH	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 07:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	08/19/21 09:02	08/20/21 07:24	1
o-Terphenyl (Surr)	115		70 - 130	08/19/21 09:02	08/20/21 07:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.6		4.99	mg/Kg			08/21/21 00:59	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-5187-A-21-A MS	Matrix Spike	114	89
880-5187-A-21-B MSD	Matrix Spike Duplicate	138 S1+	79
880-5188-1	C-39	111	94
880-5188-1 MS	C-39	118	99
880-5188-1 MSD	C-39	99	78
880-5188-2	C-40	143 S1+	110
880-5188-3	C-41	203 S1+	175 S1+
880-5188-4	C-42	143 S1+	14 S1-
880-5188-5	C-43	110	91
880-5188-6	C-44	140 S1+	137 S1+
880-5188-7	C-45	96	91
880-5188-8	C-46	96	108
880-5188-9	C-47	105	104
880-5188-10	C-48	107	107
880-5188-11	C-49	127	79
880-5188-12	C-50	110	106
880-5188-13	C-51	115	108
880-5188-14	C-52	135 S1+	90
880-5188-15	C-53	113	101
880-5188-16	C-54	106	104
880-5188-17	C-55	108	108
880-5188-18	C-56	109	108
880-5188-19	C-57	109	109
880-5188-20	C-58	114	108
880-5188-21	C-59	109	89
880-5188-22	C-60	101	80
880-5188-23	C-61	121	112
880-5188-24	C-62	121	97
880-5188-25	C-63	115	87
880-5188-26	C-64	104	122
880-5188-27	C-65	100	97
880-5188-28	C-66	117	99
880-5188-29	C-67	118	97
880-5188-30	C-68	95	115
880-5188-30 MS	C-68	103	102
880-5188-30 MSD	C-68	105	99
880-5188-31	C-69	98	114
880-5188-32	C-70	83	74
880-5188-33	C-71	97	108
880-5188-34	C-72	90	83
880-5188-35	C-73	100	82
880-5188-36	C-74	88	105
880-5188-37	C-75	98	96
890-1115-A-1-A MS	Matrix Spike	117	100
890-1115-A-1-B MSD	Matrix Spike Duplicate	101	94
890-1120-A-1-D MS	Matrix Spike	118	107
890-1120-A-1-E MSD	Matrix Spike Duplicate	125	99
LCS 880-6674/1-A	Lab Control Sample	117	107
LCS 880-6685/1-A	Lab Control Sample	103	95

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-5188-1

Project/Site: Palmilo AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-6686/1-A	Lab Control Sample	104	103
LCS 880-6714/1-A	Lab Control Sample	101	102
LCS 880-6835/1-A	Lab Control Sample	109	104
LCSD 880-6674/2-A	Lab Control Sample Dup	100	64 S1-
LCSD 880-6685/2-A	Lab Control Sample Dup	117	91
LCSD 880-6686/2-A	Lab Control Sample Dup	102	90
LCSD 880-6714/2-A	Lab Control Sample Dup	95	95
LCSD 880-6835/2-A	Lab Control Sample Dup	112	101
MB 880-6673/5-A	Method Blank	97	106
MB 880-6674/5-A	Method Blank	137 S1+	138 S1+
MB 880-6685/5-A	Method Blank	121	72
MB 880-6686/5-A	Method Blank	102	84
MB 880-6714/5-A	Method Blank	119	95
MB 880-6723/5-A	Method Blank	93	106
MB 880-6753/5-A	Method Blank	117	102
MB 880-6784/5-A	Method Blank	100	72
MB 880-6835/5-A	Method Blank	104	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-5188-1	C-39	95	97
880-5188-1 MS	C-39	92	83
880-5188-1 MSD	C-39	104	94
880-5188-2	C-40	97	99
880-5188-3	C-41	94	97
880-5188-4	C-42	92	94
880-5188-5	C-43	96	94
880-5188-6	C-44	96	95
880-5188-7	C-45	90	92
880-5188-8	C-46	90	93
880-5188-9	C-47	100	100
880-5188-10	C-48	96	97
880-5188-11	C-49	99	102
880-5188-12	C-50	99	100
880-5188-13	C-51	98	98
880-5188-14	C-52	98	98
880-5188-15	C-53	97	98
880-5188-16	C-54	108	111
880-5188-17	C-55	96	100
880-5188-18	C-56	92	96
880-5188-19	C-57	96	100
880-5188-20	C-58	110	113
880-5188-21	C-59	100	112

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-5188-1

Project/Site: Palmilo AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-5188-21 MS	C-59	106	104
880-5188-21 MSD	C-59	103	103
880-5188-22	C-60	97	112
880-5188-23	C-61	110	126
880-5188-24	C-62	98	111
880-5188-25	C-63	93	103
880-5188-26	C-64	102	114
880-5188-27	C-65	100	111
880-5188-28	C-66	103	113
880-5188-29	C-67	101	112
880-5188-30	C-68	102	112
880-5188-31	C-69	101	112
880-5188-32	C-70	105	118
880-5188-33	C-71	99	114
880-5188-34	C-72	100	114
880-5188-35	C-73	99	109
880-5188-36	C-74	114	126
880-5188-37	C-75	107	115
LCS 880-6761/2-A	Lab Control Sample	110	104
LCS 880-6769/2-A	Lab Control Sample	108	115
LCSD 880-6761/3-A	Lab Control Sample Dup	106	100
LCSD 880-6769/3-A	Lab Control Sample Dup	106	116
MB 880-6761/1-A	Method Blank	103	112
MB 880-6769/1-A	Method Blank	104	119

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6673/5-A

Matrix: Solid

Analysis Batch: 6616

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6673

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:15	08/17/21 18:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:15	08/17/21 18:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:15	08/17/21 18:06	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/17/21 15:15	08/17/21 18:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:15	08/17/21 18:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/17/21 15:15	08/17/21 18:06	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/17/21 15:15	08/17/21 18:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/17/21 15:15	08/17/21 18:06	1
1,4-Difluorobenzene (Surr)	106		70 - 130	08/17/21 15:15	08/17/21 18:06	1

Lab Sample ID: MB 880-6674/5-A

Matrix: Solid

Analysis Batch: 6616

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6674

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 05:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 05:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 05:11	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/17/21 15:20	08/18/21 05:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:20	08/18/21 05:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/17/21 15:20	08/18/21 05:11	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/17/21 15:20	08/18/21 05:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	08/17/21 15:20	08/18/21 05:11	1
1,4-Difluorobenzene (Surr)	138	S1+	70 - 130	08/17/21 15:20	08/18/21 05:11	1

Lab Sample ID: LCS 880-6674/1-A

Matrix: Solid

Analysis Batch: 6616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08385		mg/Kg		84	70 - 130
Toluene	0.100	0.1076		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1158		mg/Kg		116	70 - 130
m,p-Xylenes	0.200	0.2138		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1049		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-6674/2-A

Matrix: Solid

Analysis Batch: 6616

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6674

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.05667	*- *1	mg/Kg		57	70 - 130	39	35
Toluene	0.100	0.09224		mg/Kg		92	70 - 130	15	35
Ethylbenzene	0.100	0.1085		mg/Kg		109	70 - 130	6	35
m,p-Xylenes	0.200	0.1803		mg/Kg		90	70 - 130	17	35
o-Xylene	0.100	0.08788		mg/Kg		88	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130

Lab Sample ID: 880-5188-1 MS

Matrix: Solid

Analysis Batch: 6616

Client Sample ID: C-39

Prep Type: Total/NA

Prep Batch: 6674

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00327	*- F1 *1	0.101	0.04088	F1	mg/Kg		37	70 - 130		
Toluene	<0.00199	U F1	0.101	0.07950		mg/Kg		78	70 - 130		
Ethylbenzene	<0.00199	U F1	0.101	0.08032		mg/Kg		80	70 - 130		
m,p-Xylenes	<0.00398	U F1	0.202	0.1436		mg/Kg		70	70 - 130		
o-Xylene	<0.00199	U F1	0.101	0.06301	F1	mg/Kg		61	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-5188-1 MSD

Matrix: Solid

Analysis Batch: 6616

Client Sample ID: C-39

Prep Type: Total/NA

Prep Batch: 6674

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00327	*- F1 *1	0.0996	0.04789	F1	mg/Kg		45	70 - 130	16	35
Toluene	<0.00199	U F1	0.0996	0.06890	F1	mg/Kg		68	70 - 130	14	35
Ethylbenzene	<0.00199	U F1	0.0996	0.06619	F1	mg/Kg		66	70 - 130	19	35
m,p-Xylenes	<0.00398	U F1	0.199	0.1170	F1	mg/Kg		57	70 - 130	20	35
o-Xylene	<0.00199	U F1	0.0996	0.05474	F1	mg/Kg		54	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: MB 880-6685/5-A

Matrix: Solid

Analysis Batch: 6749

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6685

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:45	08/19/21 05:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:45	08/19/21 05:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:45	08/19/21 05:12	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-6685/5-A

Matrix: Solid

Analysis Batch: 6749

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6685

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/17/21 15:45	08/19/21 05:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:45	08/19/21 05:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/17/21 15:45	08/19/21 05:12	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/17/21 15:45	08/19/21 05:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/17/21 15:45	08/19/21 05:12	1
1,4-Difluorobenzene (Surr)	72		70 - 130	08/17/21 15:45	08/19/21 05:12	1

Lab Sample ID: LCS 880-6685/1-A

Matrix: Solid

Analysis Batch: 6749

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.05597	*-	mg/Kg		56	70 - 130
Toluene	0.100	0.09595		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1005		mg/Kg		100	70 - 130
m,p-Xylenes	0.200	0.1748		mg/Kg		87	70 - 130
o-Xylene	0.100	0.08780		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-6685/2-A

Matrix: Solid

Analysis Batch: 6749

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6685

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08161	*1	mg/Kg		82	70 - 130	37	35
Toluene	0.100	0.09143		mg/Kg		91	70 - 130	5	35
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130	3	35
m,p-Xylenes	0.200	0.1934		mg/Kg		97	70 - 130	10	35
o-Xylene	0.100	0.1013		mg/Kg		101	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-5187-A-21-A MS

Matrix: Solid

Analysis Batch: 6749

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1 *- *1	0.100	0.04436	F1	mg/Kg		43	70 - 130
Toluene	<0.00200	U F1	0.100	0.06508	F1	mg/Kg		63	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.07879		mg/Kg		79	70 - 130
m,p-Xylenes	<0.00400	U	0.200	0.1460		mg/Kg		72	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5187-A-21-A MS

Matrix: Solid

Analysis Batch: 6749

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	<0.00200	U F1	0.100	0.06844	F1	mg/Kg		68	70 - 130
Surrogate									
	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	114		70 - 130						
1,4-Difluorobenzene (Surr)	89		70 - 130						

Lab Sample ID: 880-5187-A-21-B MSD

Matrix: Solid

Analysis Batch: 6749

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U F1 *- *1	0.0996	0.06278	F1	mg/Kg		62	70 - 130	34	35
Toluene	<0.00200	U F1	0.0996	0.08571		mg/Kg		84	70 - 130	27	35
Ethylbenzene	<0.00200	U	0.0996	0.09672		mg/Kg		97	70 - 130	20	35
m,p-Xylenes	<0.00400	U	0.199	0.1758		mg/Kg		87	70 - 130	19	35
o-Xylene	<0.00200	U F1	0.0996	0.08877		mg/Kg		89	70 - 130	26	35
Surrogate											
	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	79		70 - 130								

Lab Sample ID: MB 880-6686/5-A

Matrix: Solid

Analysis Batch: 6831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6686

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 11:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 11:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 11:56	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/18/21 08:45	08/21/21 11:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 08:45	08/21/21 11:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/21 08:45	08/21/21 11:56	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/18/21 08:45	08/21/21 11:56	1
Surrogate								
	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			08/18/21 08:45	08/21/21 11:56	1
1,4-Difluorobenzene (Surr)	84		70 - 130			08/18/21 08:45	08/21/21 11:56	1

Lab Sample ID: LCS 880-6686/1-A

Matrix: Solid

Analysis Batch: 6831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09114		mg/Kg		91	70 - 130
Toluene	0.100	0.08142		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08902		mg/Kg		89	70 - 130
m,p-Xylenes	0.200	0.1525		mg/Kg		76	70 - 130
o-Xylene	0.100	0.07851		mg/Kg		79	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-6686/2-A

Matrix: Solid

Analysis Batch: 6831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6686

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08159		mg/Kg		82	70 - 130	11	35
Toluene	0.100	0.08229		mg/Kg		82	70 - 130	1	35
Ethylbenzene	0.100	0.08924		mg/Kg		89	70 - 130	0	35
m,p-Xylenes	0.200	0.1552		mg/Kg		78	70 - 130	2	35
o-Xylene	0.100	0.07889		mg/Kg		79	70 - 130	0	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-5188-30 MS

Matrix: Solid

Analysis Batch: 6831

Client Sample ID: C-68

Prep Type: Total/NA

Prep Batch: 6686

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00357	F1	0.100	0.02594	F1	mg/Kg		22	70 - 130		
Toluene	<0.00202	U F1 F2	0.100	0.01960	F1	mg/Kg		20	70 - 130		
Ethylbenzene	<0.00202	U F1	0.100	0.02067	F1	mg/Kg		21	70 - 130		
m,p-Xylenes	<0.00404	U F1	0.200	0.03543	F1	mg/Kg		18	70 - 130		
o-Xylene	<0.00202	U F1	0.100	0.01927	F1	mg/Kg		19	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-5188-30 MSD

Matrix: Solid

Analysis Batch: 6831

Client Sample ID: C-68

Prep Type: Total/NA

Prep Batch: 6686

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00357	F1	0.101	0.03305	F1	mg/Kg		29	70 - 130	24	35
Toluene	<0.00202	U F1 F2	0.101	0.03536	F1 F2	mg/Kg		35	70 - 130	57	35
Ethylbenzene	<0.00202	U F1	0.101	0.02733	F1	mg/Kg		27	70 - 130	28	35
m,p-Xylenes	<0.00404	U F1	0.202	0.04968	F1	mg/Kg		25	70 - 130	33	35
o-Xylene	<0.00202	U F1	0.101	0.02470	F1	mg/Kg		25	70 - 130	25	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-6714/5-A

Matrix: Solid

Analysis Batch: 6750

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6714

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 07:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 07:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 07:25	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/18/21 11:30	08/19/21 07:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 11:30	08/19/21 07:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/21 11:30	08/19/21 07:25	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/18/21 11:30	08/19/21 07:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/18/21 11:30	08/19/21 07:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/18/21 11:30	08/19/21 07:25	1

Lab Sample ID: LCS 880-6714/1-A

Matrix: Solid

Analysis Batch: 6750

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1006		mg/Kg		101	70 - 130
Toluene	0.100	0.09245		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.08896		mg/Kg		89	70 - 130
m,p-Xylenes	0.200	0.1793		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08726		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-6714/2-A

Matrix: Solid

Analysis Batch: 6750

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6714

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08874		mg/Kg		89	70 - 130	12	35
Toluene	0.100	0.08607		mg/Kg		86	70 - 130	7	35
Ethylbenzene	0.100	0.08427		mg/Kg		84	70 - 130	5	35
m,p-Xylenes	0.200	0.1682		mg/Kg		84	70 - 130	6	35
o-Xylene	0.100	0.08169		mg/Kg		82	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-1115-A-1-A MS

Matrix: Solid

Analysis Batch: 6750

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U F2 F1	0.0998	0.05420	F1	mg/Kg		54	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1115-A-1-A MS

Matrix: Solid

Analysis Batch: 6750

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00201	U F2 F1	0.0998	0.04399	F1	mg/Kg		44	70 - 130
Ethylbenzene	<0.00201	U F2 F1	0.0998	0.02679	F1	mg/Kg		27	70 - 130
m,p-Xylenes	<0.00402	U F2 F1	0.200	0.07496	F1	mg/Kg		38	70 - 130
o-Xylene	<0.00201	U F2 F1	0.0998	0.05557	F1	mg/Kg		56	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	117		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: 890-1115-A-1-B MSD

Matrix: Solid

Analysis Batch: 6750

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6714

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U F2 F1	0.0994	0.07894	F2	mg/Kg		79	70 - 130	37	35
Toluene	<0.00201	U F2 F1	0.0994	0.06587	F2 F1	mg/Kg		66	70 - 130	40	35
Ethylbenzene	<0.00201	U F2 F1	0.0994	0.04179	F2 F1	mg/Kg		42	70 - 130	44	35
m,p-Xylenes	<0.00402	U F2 F1	0.199	0.1154	F2 F1	mg/Kg		58	70 - 130	43	35
o-Xylene	<0.00201	U F2 F1	0.0994	0.03012	F2 F1	mg/Kg		30	70 - 130	59	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	94		70 - 130								

Lab Sample ID: MB 880-6723/5-A

Matrix: Solid

Analysis Batch: 6749

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6723

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			08/18/21 10:40	08/18/21 18:13	1
1,4-Difluorobenzene (Surr)	106		70 - 130			08/18/21 10:40	08/18/21 18:13	1

Lab Sample ID: MB 880-6753/5-A

Matrix: Solid

Analysis Batch: 6750

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6753

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 15:46	08/18/21 19:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 15:46	08/18/21 19:50	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-6753/5-A

Matrix: Solid

Analysis Batch: 6750

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6753

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 15:46	08/18/21 19:50	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/18/21 15:46	08/18/21 19:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 15:46	08/18/21 19:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/21 15:46	08/18/21 19:50	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/18/21 15:46	08/18/21 19:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/18/21 15:46	08/18/21 19:50	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/18/21 15:46	08/18/21 19:50	1

Lab Sample ID: MB 880-6784/5-A

Matrix: Solid

Analysis Batch: 6831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6784

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/21 09:30	08/21/21 00:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/21 09:30	08/21/21 00:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/21 09:30	08/21/21 00:53	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/20/21 09:30	08/21/21 00:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/21 09:30	08/21/21 00:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/20/21 09:30	08/21/21 00:53	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/20/21 09:30	08/21/21 00:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/20/21 09:30	08/21/21 00:53	1
1,4-Difluorobenzene (Surr)	72		70 - 130	08/20/21 09:30	08/21/21 00:53	1

Lab Sample ID: MB 880-6835/5-A

Matrix: Solid

Analysis Batch: 6871

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6835

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/21 08:30	08/20/21 17:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/21 08:30	08/20/21 17:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/21 08:30	08/20/21 17:37	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/20/21 08:30	08/20/21 17:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/21 08:30	08/20/21 17:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/20/21 08:30	08/20/21 17:37	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/20/21 08:30	08/20/21 17:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/20/21 08:30	08/20/21 17:37	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/20/21 08:30	08/20/21 17:37	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-6835/1-A

Matrix: Solid

Analysis Batch: 6871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6835

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08032		mg/Kg		80	70 - 130
Toluene	0.100	0.07765		mg/Kg		78	70 - 130
Ethylbenzene	0.100	0.08182		mg/Kg		82	70 - 130
m,p-Xylenes	0.200	0.1655		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08486		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-6835/2-A

Matrix: Solid

Analysis Batch: 6871

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6835

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07845		mg/Kg		78	70 - 130	2	35
Toluene	0.100	0.07820		mg/Kg		78	70 - 130	1	35
Ethylbenzene	0.100	0.08387		mg/Kg		84	70 - 130	2	35
m,p-Xylenes	0.200	0.1694		mg/Kg		85	70 - 130	2	35
o-Xylene	0.100	0.08761		mg/Kg		88	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-1120-A-1-D MS

Matrix: Solid

Analysis Batch: 6871

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1	0.0998	0.07283		mg/Kg		73	70 - 130
Toluene	<0.00202	U	0.0998	0.06959		mg/Kg		70	70 - 130
Ethylbenzene	<0.00202	U	0.0998	0.07065		mg/Kg		71	70 - 130
m,p-Xylenes	<0.00403	U	0.200	0.1469		mg/Kg		74	70 - 130
o-Xylene	<0.00202	U	0.0998	0.07457		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-1120-A-1-E MSD

Matrix: Solid

Analysis Batch: 6871

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6835

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.0994	0.06406	F1	mg/Kg		64	70 - 130	13	35
Toluene	<0.00202	U	0.0994	0.06913		mg/Kg		70	70 - 130	1	35
Ethylbenzene	<0.00202	U	0.0994	0.07420		mg/Kg		75	70 - 130	5	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1120-A-1-E MSD

Matrix: Solid

Analysis Batch: 6871

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6835

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m,p-Xylenes	<0.00403	U	0.199	0.1554		mg/Kg		78	70 - 130	6	35
o-Xylene	<0.00202	U	0.0994	0.07825		mg/Kg		78	70 - 130	5	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	125		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-6761/1-A

Matrix: Solid

Analysis Batch: 6806

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6761

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 00:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 00:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 00:07	1
Total TPH	<50.0	U	50.0	mg/Kg		08/18/21 16:58	08/20/21 00:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			08/18/21 16:58	08/20/21 00:07	1
o-Terphenyl (Surr)	112		70 - 130			08/18/21 16:58	08/20/21 00:07	1

Lab Sample ID: LCS 880-6761/2-A

Matrix: Solid

Analysis Batch: 6806

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	891.9		mg/Kg		89	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	940.1		mg/Kg		94	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane (Surr)	110		70 - 130					
o-Terphenyl (Surr)	104		70 - 130					

Lab Sample ID: LCSD 880-6761/3-A

Matrix: Solid

Analysis Batch: 6806

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6761

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	844.1		mg/Kg		84	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	900.4		mg/Kg		90	70 - 130	4	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-6761/3-A

Matrix: Solid

Analysis Batch: 6806

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6761

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	100		70 - 130

Lab Sample ID: 880-5188-1 MS

Matrix: Solid

Analysis Batch: 6806

Client Sample ID: C-39

Prep Type: Total/NA

Prep Batch: 6761

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	995	920.2		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	995	774.8		mg/Kg		76	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	92		70 - 130							
o-Terphenyl (Surr)	83		70 - 130							

Lab Sample ID: 880-5188-1 MSD

Matrix: Solid

Analysis Batch: 6806

Client Sample ID: C-39

Prep Type: Total/NA

Prep Batch: 6761

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	998	1413	F1 F2	mg/Kg		137	70 - 130	42	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	848.6		mg/Kg		83	70 - 130	9	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	104		70 - 130									
o-Terphenyl (Surr)	94		70 - 130									

Lab Sample ID: MB 880-6769/1-A

Matrix: Solid

Analysis Batch: 6808

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6769

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 00:07	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 00:07	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 00:07	1		
Total TPH	<50.0	U	50.0	mg/Kg		08/19/21 09:02	08/20/21 00:07	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	104		70 - 130			08/19/21 09:02	08/20/21 00:07	1		
o-Terphenyl (Surr)	119		70 - 130			08/19/21 09:02	08/20/21 00:07	1		

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-6769/2-A

Matrix: Solid

Analysis Batch: 6808

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6769

Analyte			Spike	LCS	LCS	Unit	D	%Rec.		
			Added	Result	Qualifier			%Rec		
Gasoline Range Organics (GRO)-C6-C10			1000	1209		mg/Kg		121	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	840.9		mg/Kg		84	70 - 130	

Lab Sample ID: LCSD 880-6769/3-A

Matrix: Solid

Analysis Batch: 6808

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6769

Top Data: 1000											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1187		mg/Kg		119	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	857.6		mg/Kg		86	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane (Surr)	106		70 - 130								
o-Terphenyl (Surr)	116		70 - 130								

Lab Sample ID: 880-5188-21 MS

Matrix: Solid

Analysis Batch: 6808

Client Sample ID: C-59

Prep Type: Total/NA

Prep Batch: 6769

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	995.6		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	62.9		995	817.2		mg/Kg		76	70 - 130		
					</						

Lab Sample ID: 880-5188-21 MSD

Matrix: Solid

Analysis Batch: 6808

Client Sample ID: C-59

Prep Type: Total/NA

Prep Batch: 6769

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1068		mg/Kg		103	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	62.9		998	848.8		mg/Kg		79	70 - 130	4	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-5188-21 MSD

Matrix: Solid

Analysis Batch: 6808

Client Sample ID: C-59

Prep Type: Total/NA

Prep Batch: 6769

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	103		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6744/1-A

Matrix: Solid

Analysis Batch: 6855

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00	mg/Kg			08/21/21 01:27	1	

Lab Sample ID: LCS 880-6744/2-A

Matrix: Solid

Analysis Batch: 6855

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	259.8		mg/Kg		104	90 - 110	

Lab Sample ID: LCSD 880-6744/3-A

Matrix: Solid

Analysis Batch: 6855

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	260.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-5188-8 MS

Matrix: Solid

Analysis Batch: 6855

Client Sample ID: C-46

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	3610		1250	4975		mg/Kg		110	90 - 110		

Lab Sample ID: 880-5188-8 MSD

Matrix: Solid

Analysis Batch: 6855

Client Sample ID: C-46

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	3610		1250	4980		mg/Kg		110	90 - 110	0	20

Lab Sample ID: MB 880-6745/1-A

Matrix: Solid

Analysis Batch: 6857

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			08/20/21 22:11	1		

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-6745/2-A

Matrix: Solid

Analysis Batch: 6857

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	260.3		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-6745/3-A

Matrix: Solid

Analysis Batch: 6857

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	260.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-5188-18 MS

Matrix: Solid

Analysis Batch: 6857

Client Sample ID: C-56

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2430		1250	3665		mg/Kg		99	90 - 110		

Lab Sample ID: 880-5188-18 MSD

Matrix: Solid

Analysis Batch: 6857

Client Sample ID: C-56

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2430		1250	3661		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-5188-28 MS

Matrix: Solid

Analysis Batch: 6857

Client Sample ID: C-66

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	27.1		253	288.5		mg/Kg		104	90 - 110		

Lab Sample ID: 880-5188-28 MSD

Matrix: Solid

Analysis Batch: 6857

Client Sample ID: C-66

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	27.1		253	290.4		mg/Kg		104	90 - 110	1	20

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

GC VOA

Analysis Batch: 6616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-1	C-39	Total/NA	Solid	8021B	6674
880-5188-2	C-40	Total/NA	Solid	8021B	6674
880-5188-3	C-41	Total/NA	Solid	8021B	6674
880-5188-4	C-42	Total/NA	Solid	8021B	6674
880-5188-5	C-43	Total/NA	Solid	8021B	6674
880-5188-6	C-44	Total/NA	Solid	8021B	6674
880-5188-7	C-45	Total/NA	Solid	8021B	6674
880-5188-8	C-46	Total/NA	Solid	8021B	6674
880-5188-9	C-47	Total/NA	Solid	8021B	6674
MB 880-6673/5-A	Method Blank	Total/NA	Solid	8021B	6673
MB 880-6674/5-A	Method Blank	Total/NA	Solid	8021B	6674
LCS 880-6674/1-A	Lab Control Sample	Total/NA	Solid	8021B	6674
LCSD 880-6674/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6674
880-5188-1 MS	C-39	Total/NA	Solid	8021B	6674
880-5188-1 MSD	C-39	Total/NA	Solid	8021B	6674

Prep Batch: 6673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6673/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-1	C-39	Total/NA	Solid	5035	
880-5188-2	C-40	Total/NA	Solid	5035	
880-5188-3	C-41	Total/NA	Solid	5035	
880-5188-4	C-42	Total/NA	Solid	5035	
880-5188-5	C-43	Total/NA	Solid	5035	
880-5188-6	C-44	Total/NA	Solid	5035	
880-5188-7	C-45	Total/NA	Solid	5035	
880-5188-8	C-46	Total/NA	Solid	5035	
880-5188-9	C-47	Total/NA	Solid	5035	
MB 880-6674/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6674/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6674/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5188-1 MS	C-39	Total/NA	Solid	5035	
880-5188-1 MSD	C-39	Total/NA	Solid	5035	

Prep Batch: 6685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-21	C-59	Total/NA	Solid	5035	
880-5188-22	C-60	Total/NA	Solid	5035	
880-5188-23	C-61	Total/NA	Solid	5035	
880-5188-24	C-62	Total/NA	Solid	5035	
880-5188-25	C-63	Total/NA	Solid	5035	
880-5188-26	C-64	Total/NA	Solid	5035	
880-5188-27	C-65	Total/NA	Solid	5035	
MB 880-6685/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6685/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6685/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5187-A-21-A MS	Matrix Spike	Total/NA	Solid	5035	
880-5187-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

GC VOA

Prep Batch: 6686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-30	C-68	Total/NA	Solid	5035	
880-5188-31	C-69	Total/NA	Solid	5035	
880-5188-32	C-70	Total/NA	Solid	5035	
880-5188-33	C-71	Total/NA	Solid	5035	
880-5188-34	C-72	Total/NA	Solid	5035	
880-5188-35	C-73	Total/NA	Solid	5035	
880-5188-36	C-74	Total/NA	Solid	5035	
880-5188-37	C-75	Total/NA	Solid	5035	
MB 880-6686/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6686/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6686/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5188-30 MS	C-68	Total/NA	Solid	5035	
880-5188-30 MSD	C-68	Total/NA	Solid	5035	

Prep Batch: 6714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-10	C-48	Total/NA	Solid	5035	
880-5188-11	C-49	Total/NA	Solid	5035	
880-5188-12	C-50	Total/NA	Solid	5035	
880-5188-13	C-51	Total/NA	Solid	5035	
880-5188-14	C-52	Total/NA	Solid	5035	
880-5188-15	C-53	Total/NA	Solid	5035	
880-5188-16	C-54	Total/NA	Solid	5035	
880-5188-17	C-55	Total/NA	Solid	5035	
880-5188-18	C-56	Total/NA	Solid	5035	
880-5188-19	C-57	Total/NA	Solid	5035	
880-5188-20	C-58	Total/NA	Solid	5035	
MB 880-6714/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6714/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6714/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1115-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-1115-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 6723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6723/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 6749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-21	C-59	Total/NA	Solid	8021B	6685
880-5188-22	C-60	Total/NA	Solid	8021B	6685
880-5188-23	C-61	Total/NA	Solid	8021B	6685
880-5188-24	C-62	Total/NA	Solid	8021B	6685
880-5188-25	C-63	Total/NA	Solid	8021B	6685
880-5188-26	C-64	Total/NA	Solid	8021B	6685
880-5188-27	C-65	Total/NA	Solid	8021B	6685
MB 880-6685/5-A	Method Blank	Total/NA	Solid	8021B	6685
MB 880-6723/5-A	Method Blank	Total/NA	Solid	8021B	6723
LCS 880-6685/1-A	Lab Control Sample	Total/NA	Solid	8021B	6685
LCSD 880-6685/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6685
880-5187-A-21-A MS	Matrix Spike	Total/NA	Solid	8021B	6685

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 6749 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5187-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6685

Analysis Batch: 6750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-10	C-48	Total/NA	Solid	8021B	6714
880-5188-11	C-49	Total/NA	Solid	8021B	6714
880-5188-12	C-50	Total/NA	Solid	8021B	6714
880-5188-13	C-51	Total/NA	Solid	8021B	6714
880-5188-14	C-52	Total/NA	Solid	8021B	6714
880-5188-15	C-53	Total/NA	Solid	8021B	6714
880-5188-16	C-54	Total/NA	Solid	8021B	6714
880-5188-17	C-55	Total/NA	Solid	8021B	6714
880-5188-18	C-56	Total/NA	Solid	8021B	6714
880-5188-19	C-57	Total/NA	Solid	8021B	6714
880-5188-20	C-58	Total/NA	Solid	8021B	6714
MB 880-6714/5-A	Method Blank	Total/NA	Solid	8021B	6714
MB 880-6753/5-A	Method Blank	Total/NA	Solid	8021B	6753
LCS 880-6714/1-A	Lab Control Sample	Total/NA	Solid	8021B	6714
LCSD 880-6714/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6714
890-1115-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	6714
890-1115-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6714

Prep Batch: 6753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6753/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6784/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 6831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-30	C-68	Total/NA	Solid	8021B	6686
880-5188-31	C-69	Total/NA	Solid	8021B	6686
880-5188-32	C-70	Total/NA	Solid	8021B	6686
880-5188-33	C-71	Total/NA	Solid	8021B	6686
880-5188-34	C-72	Total/NA	Solid	8021B	6686
880-5188-35	C-73	Total/NA	Solid	8021B	6686
880-5188-36	C-74	Total/NA	Solid	8021B	6686
880-5188-37	C-75	Total/NA	Solid	8021B	6686
MB 880-6686/5-A	Method Blank	Total/NA	Solid	8021B	6686
MB 880-6784/5-A	Method Blank	Total/NA	Solid	8021B	6784
LCS 880-6686/1-A	Lab Control Sample	Total/NA	Solid	8021B	6686
LCSD 880-6686/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6686
880-5188-30 MS	C-68	Total/NA	Solid	8021B	6686
880-5188-30 MSD	C-68	Total/NA	Solid	8021B	6686

Prep Batch: 6835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-28	C-66	Total/NA	Solid	5035	
880-5188-29	C-67	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 6835 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6835/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6835/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6835/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1120-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-1120-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 6871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-28	C-66	Total/NA	Solid	8021B	6835
880-5188-29	C-67	Total/NA	Solid	8021B	6835
MB 880-6835/5-A	Method Blank	Total/NA	Solid	8021B	6835
LCS 880-6835/1-A	Lab Control Sample	Total/NA	Solid	8021B	6835
LCSD 880-6835/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6835
890-1120-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	6835
890-1120-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6835

GC Semi VOA

Prep Batch: 6761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-1	C-39	Total/NA	Solid	8015NM Prep	
880-5188-2	C-40	Total/NA	Solid	8015NM Prep	
880-5188-3	C-41	Total/NA	Solid	8015NM Prep	
880-5188-4	C-42	Total/NA	Solid	8015NM Prep	
880-5188-5	C-43	Total/NA	Solid	8015NM Prep	
880-5188-6	C-44	Total/NA	Solid	8015NM Prep	
880-5188-7	C-45	Total/NA	Solid	8015NM Prep	
880-5188-8	C-46	Total/NA	Solid	8015NM Prep	
880-5188-9	C-47	Total/NA	Solid	8015NM Prep	
880-5188-10	C-48	Total/NA	Solid	8015NM Prep	
880-5188-11	C-49	Total/NA	Solid	8015NM Prep	
880-5188-12	C-50	Total/NA	Solid	8015NM Prep	
880-5188-13	C-51	Total/NA	Solid	8015NM Prep	
880-5188-14	C-52	Total/NA	Solid	8015NM Prep	
880-5188-15	C-53	Total/NA	Solid	8015NM Prep	
880-5188-16	C-54	Total/NA	Solid	8015NM Prep	
880-5188-17	C-55	Total/NA	Solid	8015NM Prep	
880-5188-18	C-56	Total/NA	Solid	8015NM Prep	
880-5188-19	C-57	Total/NA	Solid	8015NM Prep	
880-5188-20	C-58	Total/NA	Solid	8015NM Prep	
MB 880-6761/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6761/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6761/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5188-1 MS	C-39	Total/NA	Solid	8015NM Prep	
880-5188-1 MSD	C-39	Total/NA	Solid	8015NM Prep	

Prep Batch: 6769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-21	C-59	Total/NA	Solid	8015NM Prep	
880-5188-22	C-60	Total/NA	Solid	8015NM Prep	
880-5188-23	C-61	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 6769 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-24	C-62	Total/NA	Solid	8015NM Prep	
880-5188-25	C-63	Total/NA	Solid	8015NM Prep	
880-5188-26	C-64	Total/NA	Solid	8015NM Prep	
880-5188-27	C-65	Total/NA	Solid	8015NM Prep	
880-5188-28	C-66	Total/NA	Solid	8015NM Prep	
880-5188-29	C-67	Total/NA	Solid	8015NM Prep	
880-5188-30	C-68	Total/NA	Solid	8015NM Prep	
880-5188-31	C-69	Total/NA	Solid	8015NM Prep	
880-5188-32	C-70	Total/NA	Solid	8015NM Prep	
880-5188-33	C-71	Total/NA	Solid	8015NM Prep	
880-5188-34	C-72	Total/NA	Solid	8015NM Prep	
880-5188-35	C-73	Total/NA	Solid	8015NM Prep	
880-5188-36	C-74	Total/NA	Solid	8015NM Prep	
880-5188-37	C-75	Total/NA	Solid	8015NM Prep	
MB 880-6769/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6769/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5188-21 MS	C-59	Total/NA	Solid	8015NM Prep	
880-5188-21 MSD	C-59	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-1	C-39	Total/NA	Solid	8015B NM	6761
880-5188-2	C-40	Total/NA	Solid	8015B NM	6761
880-5188-3	C-41	Total/NA	Solid	8015B NM	6761
880-5188-4	C-42	Total/NA	Solid	8015B NM	6761
880-5188-5	C-43	Total/NA	Solid	8015B NM	6761
880-5188-6	C-44	Total/NA	Solid	8015B NM	6761
880-5188-7	C-45	Total/NA	Solid	8015B NM	6761
880-5188-8	C-46	Total/NA	Solid	8015B NM	6761
880-5188-9	C-47	Total/NA	Solid	8015B NM	6761
880-5188-10	C-48	Total/NA	Solid	8015B NM	6761
880-5188-11	C-49	Total/NA	Solid	8015B NM	6761
880-5188-12	C-50	Total/NA	Solid	8015B NM	6761
880-5188-13	C-51	Total/NA	Solid	8015B NM	6761
880-5188-14	C-52	Total/NA	Solid	8015B NM	6761
880-5188-15	C-53	Total/NA	Solid	8015B NM	6761
880-5188-16	C-54	Total/NA	Solid	8015B NM	6761
880-5188-17	C-55	Total/NA	Solid	8015B NM	6761
880-5188-18	C-56	Total/NA	Solid	8015B NM	6761
880-5188-19	C-57	Total/NA	Solid	8015B NM	6761
880-5188-20	C-58	Total/NA	Solid	8015B NM	6761
MB 880-6761/1-A	Method Blank	Total/NA	Solid	8015B NM	6761
LCS 880-6761/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6761
LCSD 880-6761/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6761
880-5188-1 MS	C-39	Total/NA	Solid	8015B NM	6761
880-5188-1 MSD	C-39	Total/NA	Solid	8015B NM	6761

Analysis Batch: 6808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-21	C-59	Total/NA	Solid	8015B NM	6769

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 6808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-22	C-60	Total/NA	Solid	8015B NM	6769
880-5188-23	C-61	Total/NA	Solid	8015B NM	6769
880-5188-24	C-62	Total/NA	Solid	8015B NM	6769
880-5188-25	C-63	Total/NA	Solid	8015B NM	6769
880-5188-26	C-64	Total/NA	Solid	8015B NM	6769
880-5188-27	C-65	Total/NA	Solid	8015B NM	6769
880-5188-28	C-66	Total/NA	Solid	8015B NM	6769
880-5188-29	C-67	Total/NA	Solid	8015B NM	6769
880-5188-30	C-68	Total/NA	Solid	8015B NM	6769
880-5188-31	C-69	Total/NA	Solid	8015B NM	6769
880-5188-32	C-70	Total/NA	Solid	8015B NM	6769
880-5188-33	C-71	Total/NA	Solid	8015B NM	6769
880-5188-34	C-72	Total/NA	Solid	8015B NM	6769
880-5188-35	C-73	Total/NA	Solid	8015B NM	6769
880-5188-36	C-74	Total/NA	Solid	8015B NM	6769
880-5188-37	C-75	Total/NA	Solid	8015B NM	6769
MB 880-6769/1-A	Method Blank	Total/NA	Solid	8015B NM	6769
LCS 880-6769/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6769
LCSD 880-6769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6769
880-5188-21 MS	C-59	Total/NA	Solid	8015B NM	6769
880-5188-21 MSD	C-59	Total/NA	Solid	8015B NM	6769

HPLC/IC

Leach Batch: 6744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-1	C-39	Soluble	Solid	DI Leach	
880-5188-2	C-40	Soluble	Solid	DI Leach	
880-5188-3	C-41	Soluble	Solid	DI Leach	
880-5188-4	C-42	Soluble	Solid	DI Leach	
880-5188-5	C-43	Soluble	Solid	DI Leach	
880-5188-6	C-44	Soluble	Solid	DI Leach	
880-5188-7	C-45	Soluble	Solid	DI Leach	
880-5188-8	C-46	Soluble	Solid	DI Leach	
880-5188-9	C-47	Soluble	Solid	DI Leach	
880-5188-10	C-48	Soluble	Solid	DI Leach	
880-5188-11	C-49	Soluble	Solid	DI Leach	
880-5188-12	C-50	Soluble	Solid	DI Leach	
880-5188-13	C-51	Soluble	Solid	DI Leach	
880-5188-14	C-52	Soluble	Solid	DI Leach	
880-5188-15	C-53	Soluble	Solid	DI Leach	
880-5188-16	C-54	Soluble	Solid	DI Leach	
880-5188-17	C-55	Soluble	Solid	DI Leach	
MB 880-6744/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6744/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6744/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5188-8 MS	C-46	Soluble	Solid	DI Leach	
880-5188-8 MSD	C-46	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 6745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-18	C-56	Soluble	Solid	DI Leach	
880-5188-19	C-57	Soluble	Solid	DI Leach	
880-5188-20	C-58	Soluble	Solid	DI Leach	
880-5188-21	C-59	Soluble	Solid	DI Leach	
880-5188-22	C-60	Soluble	Solid	DI Leach	
880-5188-23	C-61	Soluble	Solid	DI Leach	
880-5188-24	C-62	Soluble	Solid	DI Leach	
880-5188-25	C-63	Soluble	Solid	DI Leach	
880-5188-26	C-64	Soluble	Solid	DI Leach	
880-5188-27	C-65	Soluble	Solid	DI Leach	
880-5188-28	C-66	Soluble	Solid	DI Leach	
880-5188-29	C-67	Soluble	Solid	DI Leach	
880-5188-30	C-68	Soluble	Solid	DI Leach	
880-5188-31	C-69	Soluble	Solid	DI Leach	
880-5188-32	C-70	Soluble	Solid	DI Leach	
880-5188-33	C-71	Soluble	Solid	DI Leach	
880-5188-34	C-72	Soluble	Solid	DI Leach	
880-5188-35	C-73	Soluble	Solid	DI Leach	
880-5188-36	C-74	Soluble	Solid	DI Leach	
880-5188-37	C-75	Soluble	Solid	DI Leach	
MB 880-6745/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6745/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6745/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5188-18 MS	C-56	Soluble	Solid	DI Leach	
880-5188-18 MSD	C-56	Soluble	Solid	DI Leach	
880-5188-28 MS	C-66	Soluble	Solid	DI Leach	
880-5188-28 MSD	C-66	Soluble	Solid	DI Leach	

Analysis Batch: 6855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-1	C-39	Soluble	Solid	300.0	6744
880-5188-2	C-40	Soluble	Solid	300.0	6744
880-5188-3	C-41	Soluble	Solid	300.0	6744
880-5188-4	C-42	Soluble	Solid	300.0	6744
880-5188-5	C-43	Soluble	Solid	300.0	6744
880-5188-6	C-44	Soluble	Solid	300.0	6744
880-5188-7	C-45	Soluble	Solid	300.0	6744
880-5188-8	C-46	Soluble	Solid	300.0	6744
880-5188-9	C-47	Soluble	Solid	300.0	6744
880-5188-10	C-48	Soluble	Solid	300.0	6744
880-5188-11	C-49	Soluble	Solid	300.0	6744
880-5188-12	C-50	Soluble	Solid	300.0	6744
880-5188-13	C-51	Soluble	Solid	300.0	6744
880-5188-14	C-52	Soluble	Solid	300.0	6744
880-5188-15	C-53	Soluble	Solid	300.0	6744
880-5188-16	C-54	Soluble	Solid	300.0	6744
880-5188-17	C-55	Soluble	Solid	300.0	6744
MB 880-6744/1-A	Method Blank	Soluble	Solid	300.0	6744
LCS 880-6744/2-A	Lab Control Sample	Soluble	Solid	300.0	6744
LCSD 880-6744/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6744
880-5188-8 MS	C-46	Soluble	Solid	300.0	6744

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 6855 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-8 MSD	C-46	Soluble	Solid	300.0	6744

Analysis Batch: 6857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5188-18	C-56	Soluble	Solid	300.0	6745
880-5188-19	C-57	Soluble	Solid	300.0	6745
880-5188-20	C-58	Soluble	Solid	300.0	6745
880-5188-21	C-59	Soluble	Solid	300.0	6745
880-5188-22	C-60	Soluble	Solid	300.0	6745
880-5188-23	C-61	Soluble	Solid	300.0	6745
880-5188-24	C-62	Soluble	Solid	300.0	6745
880-5188-25	C-63	Soluble	Solid	300.0	6745
880-5188-26	C-64	Soluble	Solid	300.0	6745
880-5188-27	C-65	Soluble	Solid	300.0	6745
880-5188-28	C-66	Soluble	Solid	300.0	6745
880-5188-29	C-67	Soluble	Solid	300.0	6745
880-5188-30	C-68	Soluble	Solid	300.0	6745
880-5188-31	C-69	Soluble	Solid	300.0	6745
880-5188-32	C-70	Soluble	Solid	300.0	6745
880-5188-33	C-71	Soluble	Solid	300.0	6745
880-5188-34	C-72	Soluble	Solid	300.0	6745
880-5188-35	C-73	Soluble	Solid	300.0	6745
880-5188-36	C-74	Soluble	Solid	300.0	6745
880-5188-37	C-75	Soluble	Solid	300.0	6745
MB 880-6745/1-A	Method Blank	Soluble	Solid	300.0	6745
LCS 880-6745/2-A	Lab Control Sample	Soluble	Solid	300.0	6745
LCSD 880-6745/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6745
880-5188-18 MS	C-56	Soluble	Solid	300.0	6745
880-5188-18 MSD	C-56	Soluble	Solid	300.0	6745
880-5188-28 MS	C-66	Soluble	Solid	300.0	6745
880-5188-28 MSD	C-66	Soluble	Solid	300.0	6745

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-39

Lab Sample ID: 880-5188-1

Date Collected: 08/11/21 09:40

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6674	08/17/21 15:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6616	08/18/21 05:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 01:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6744	08/18/21 14:14	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 02:12	CH	XEN MID

Client Sample ID: C-40

Lab Sample ID: 880-5188-2

Date Collected: 08/11/21 09:41

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6674	08/17/21 15:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6616	08/18/21 05:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 02:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6744	08/18/21 14:14	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 02:18	CH	XEN MID

Client Sample ID: C-41

Lab Sample ID: 880-5188-3

Date Collected: 08/11/21 09:42

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6674	08/17/21 15:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6616	08/18/21 06:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 02:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6744	08/18/21 14:14	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 02:34	CH	XEN MID

Client Sample ID: C-42

Lab Sample ID: 880-5188-4

Date Collected: 08/11/21 09:43

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6674	08/17/21 15:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6616	08/18/21 06:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 02:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6744	08/18/21 14:14	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 02:40	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-43

Lab Sample ID: 880-5188-5

Date Collected: 08/11/21 09:44

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6674	08/17/21 15:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6616	08/18/21 06:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 03:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6744	08/18/21 14:14	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 02:46	CH	XEN MID

Client Sample ID: C-44

Lab Sample ID: 880-5188-6

Date Collected: 08/11/21 09:45

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6674	08/17/21 15:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6616	08/18/21 07:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 03:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6744	08/18/21 14:14	SC	XEN MID
Soluble	Analysis	300.0		5			6855	08/21/21 02:51	CH	XEN MID

Client Sample ID: C-45

Lab Sample ID: 880-5188-7

Date Collected: 08/11/21 09:46

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6674	08/17/21 15:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6616	08/18/21 07:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 03:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6744	08/18/21 14:14	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 02:57	CH	XEN MID

Client Sample ID: C-46

Lab Sample ID: 880-5188-8

Date Collected: 08/11/21 09:47

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6674	08/17/21 15:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6616	08/18/21 07:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 04:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6744	08/18/21 14:15	SC	XEN MID
Soluble	Analysis	300.0		5			6855	08/21/21 03:02	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-47

Lab Sample ID: 880-5188-9

Date Collected: 08/11/21 09:48

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6674	08/17/21 15:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6616	08/18/21 08:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 04:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6744	08/18/21 14:15	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 03:19	CH	XEN MID

Client Sample ID: C-48

Lab Sample ID: 880-5188-10

Date Collected: 08/11/21 09:49

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6714	08/18/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6750	08/19/21 11:33	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 04:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6744	08/18/21 14:15	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 03:25	CH	XEN MID

Client Sample ID: C-49

Lab Sample ID: 880-5188-11

Date Collected: 08/11/21 09:50

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6714	08/18/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6750	08/19/21 13:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 05:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6744	08/18/21 14:15	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 03:42	CH	XEN MID

Client Sample ID: C-50

Lab Sample ID: 880-5188-12

Date Collected: 08/11/21 09:51

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	6714	08/18/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6750	08/19/21 13:44	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 05:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6744	08/18/21 14:15	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 03:47	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-51

Lab Sample ID: 880-5188-13

Date Collected: 08/11/21 09:52

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6714	08/18/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6750	08/19/21 14:04	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 06:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6744	08/18/21 14:15	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 03:53	CH	XEN MID

Client Sample ID: C-52

Lab Sample ID: 880-5188-14

Date Collected: 08/11/21 09:53

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6714	08/18/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6750	08/19/21 14:24	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 06:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6744	08/18/21 14:15	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 03:58	CH	XEN MID

Client Sample ID: C-53

Lab Sample ID: 880-5188-15

Date Collected: 08/11/21 09:54

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6714	08/18/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6750	08/19/21 14:45	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 06:43	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6744	08/18/21 14:15	SC	XEN MID
Soluble	Analysis	300.0		1			6855	08/21/21 04:04	CH	XEN MID

Client Sample ID: C-54

Lab Sample ID: 880-5188-16

Date Collected: 08/11/21 09:55

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6714	08/18/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6750	08/19/21 15:05	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 07:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6744	08/18/21 14:15	SC	XEN MID
Soluble	Analysis	300.0		5			6855	08/21/21 04:10	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-55

Lab Sample ID: 880-5188-17

Date Collected: 08/11/21 09:56

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6714	08/18/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6750	08/19/21 15:26	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 07:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6744	08/18/21 14:15	SC	XEN MID
Soluble	Analysis	300.0		5			6855	08/21/21 04:15	CH	XEN MID

Client Sample ID: C-56

Lab Sample ID: 880-5188-18

Date Collected: 08/11/21 09:57

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6714	08/18/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6750	08/19/21 15:46	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 07:45	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		5			6857	08/20/21 22:28	CH	XEN MID

Client Sample ID: C-57

Lab Sample ID: 880-5188-19

Date Collected: 08/11/21 09:58

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6714	08/18/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6750	08/19/21 16:07	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 08:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		5			6857	08/20/21 22:44	CH	XEN MID

Client Sample ID: C-58

Lab Sample ID: 880-5188-20

Date Collected: 08/12/21 15:00

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6714	08/18/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6750	08/19/21 16:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6761	08/18/21 16:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6806	08/20/21 08:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		5			6857	08/20/21 22:50	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-59

Lab Sample ID: 880-5188-21

Date Collected: 08/12/21 15:01

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	6685	08/17/21 15:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6749	08/19/21 10:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 01:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/20/21 22:56	CH	XEN MID

Client Sample ID: C-60

Lab Sample ID: 880-5188-22

Date Collected: 08/12/21 15:02

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6685	08/17/21 15:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6749	08/19/21 11:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 02:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/20/21 23:01	CH	XEN MID

Client Sample ID: C-61

Lab Sample ID: 880-5188-23

Date Collected: 08/12/21 15:03

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	6685	08/17/21 15:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6749	08/19/21 11:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 02:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		5			6857	08/20/21 23:18	CH	XEN MID

Client Sample ID: C-62

Lab Sample ID: 880-5188-24

Date Collected: 08/12/21 15:04

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6685	08/17/21 15:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6749	08/19/21 11:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 02:45	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/20/21 23:24	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-63

Lab Sample ID: 880-5188-25

Date Collected: 08/12/21 15:05

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6685	08/17/21 15:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6749	08/19/21 12:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 03:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/20/21 23:29	CH	XEN MID

Client Sample ID: C-64

Lab Sample ID: 880-5188-26

Date Collected: 08/12/21 15:06

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6685	08/17/21 15:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6749	08/19/21 12:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 03:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/20/21 23:35	CH	XEN MID

Client Sample ID: C-65

Lab Sample ID: 880-5188-27

Date Collected: 08/12/21 15:07

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6685	08/17/21 15:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6749	08/19/21 12:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 03:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/20/21 23:41	CH	XEN MID

Client Sample ID: C-66

Lab Sample ID: 880-5188-28

Date Collected: 08/12/21 15:08

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6835	08/20/21 08:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6871	08/21/21 00:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 04:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/20/21 23:46	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-67

Lab Sample ID: 880-5188-29

Date Collected: 08/12/21 15:09

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6835	08/20/21 08:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6871	08/21/21 01:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 04:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/21/21 00:03	CH	XEN MID

Client Sample ID: C-68

Lab Sample ID: 880-5188-30

Date Collected: 08/12/21 15:10

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6686	08/18/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/21/21 12:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 04:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/21/21 00:09	CH	XEN MID

Client Sample ID: C-69

Lab Sample ID: 880-5188-31

Date Collected: 08/12/21 15:11

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6686	08/18/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/21/21 12:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 05:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/21/21 00:25	CH	XEN MID

Client Sample ID: C-70

Lab Sample ID: 880-5188-32

Date Collected: 08/12/21 15:12

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6686	08/18/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/21/21 12:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 05:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/21/21 00:31	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-71

Lab Sample ID: 880-5188-33

Date Collected: 08/12/21 15:13

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6686	08/18/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/21/21 13:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 06:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/21/21 00:37	CH	XEN MID

Client Sample ID: C-72

Lab Sample ID: 880-5188-34

Date Collected: 08/12/21 15:14

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6686	08/18/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/21/21 13:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 06:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/21/21 00:42	CH	XEN MID

Client Sample ID: C-73

Lab Sample ID: 880-5188-35

Date Collected: 08/12/21 15:15

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6686	08/18/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/21/21 14:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 06:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/21/21 00:48	CH	XEN MID

Client Sample ID: C-74

Lab Sample ID: 880-5188-36

Date Collected: 08/12/21 15:16

Matrix: Solid

Date Received: 08/17/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6686	08/18/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/21/21 14:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 07:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/21/21 00:53	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Client Sample ID: C-75
Date Collected: 08/12/21 15:17
Date Received: 08/17/21 14:17

Lab Sample ID: 880-5188-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6686	08/18/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/21/21 14:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6769	08/19/21 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6808	08/20/21 07:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6745	08/18/21 14:22	SC	XEN MID
Soluble	Analysis	300.0		1			6857	08/21/21 00:59	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmilo AST

Job ID: 880-5188-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5188-1	C-39	Solid	08/11/21 09:40	08/17/21 14:17
880-5188-2	C-40	Solid	08/11/21 09:41	08/17/21 14:17
880-5188-3	C-41	Solid	08/11/21 09:42	08/17/21 14:17
880-5188-4	C-42	Solid	08/11/21 09:43	08/17/21 14:17
880-5188-5	C-43	Solid	08/11/21 09:44	08/17/21 14:17
880-5188-6	C-44	Solid	08/11/21 09:45	08/17/21 14:17
880-5188-7	C-45	Solid	08/11/21 09:46	08/17/21 14:17
880-5188-8	C-46	Solid	08/11/21 09:47	08/17/21 14:17
880-5188-9	C-47	Solid	08/11/21 09:48	08/17/21 14:17
880-5188-10	C-48	Solid	08/11/21 09:49	08/17/21 14:17
880-5188-11	C-49	Solid	08/11/21 09:50	08/17/21 14:17
880-5188-12	C-50	Solid	08/11/21 09:51	08/17/21 14:17
880-5188-13	C-51	Solid	08/11/21 09:52	08/17/21 14:17
880-5188-14	C-52	Solid	08/11/21 09:53	08/17/21 14:17
880-5188-15	C-53	Solid	08/11/21 09:54	08/17/21 14:17
880-5188-16	C-54	Solid	08/11/21 09:55	08/17/21 14:17
880-5188-17	C-55	Solid	08/11/21 09:56	08/17/21 14:17
880-5188-18	C-56	Solid	08/11/21 09:57	08/17/21 14:17
880-5188-19	C-57	Solid	08/11/21 09:58	08/17/21 14:17
880-5188-20	C-58	Solid	08/12/21 15:00	08/17/21 14:17
880-5188-21	C-59	Solid	08/12/21 15:01	08/17/21 14:17
880-5188-22	C-60	Solid	08/12/21 15:02	08/17/21 14:17
880-5188-23	C-61	Solid	08/12/21 15:03	08/17/21 14:17
880-5188-24	C-62	Solid	08/12/21 15:04	08/17/21 14:17
880-5188-25	C-63	Solid	08/12/21 15:05	08/17/21 14:17
880-5188-26	C-64	Solid	08/12/21 15:06	08/17/21 14:17
880-5188-27	C-65	Solid	08/12/21 15:07	08/17/21 14:17
880-5188-28	C-66	Solid	08/12/21 15:08	08/17/21 14:17
880-5188-29	C-67	Solid	08/12/21 15:09	08/17/21 14:17
880-5188-30	C-68	Solid	08/12/21 15:10	08/17/21 14:17
880-5188-31	C-69	Solid	08/12/21 15:11	08/17/21 14:17
880-5188-32	C-70	Solid	08/12/21 15:12	08/17/21 14:17
880-5188-33	C-71	Solid	08/12/21 15:13	08/17/21 14:17
880-5188-34	C-72	Solid	08/12/21 15:14	08/17/21 14:17
880-5188-35	C-73	Solid	08/12/21 15:15	08/17/21 14:17
880-5188-36	C-74	Solid	08/12/21 15:16	08/17/21 14:17
880-5188-37	C-75	Solid	08/12/21 15:17	08/17/21 14:17

1234567891011121314

No 1378

CHAIN-OF-CUSTODY

Varson & Associates, Inc.
Environmental Consultants

880-5188 Chain of Custody

MILWAUKEE, WI 53201
432-687-0901

Data Reported to

ATE. 2/17/21
LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: PALMVIEW APT
LAI PROJECT #: 21-0125-02 COLLECTOR: DSG
PAGE 1 OF 3

TRRP report? ☐ Yes ☒ No		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		PRESERVATION HCl HNO ₃ H ₂ SO ₄ ☐ NaOH ☐ ICE UNPRESSERVED		ANALYSES BTX ☐ MTBE ☐ TRPH 418 1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL - MOD 8015 ☐ OIL - MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ 8081 PESTICIDES ☐ 8082 PESTICIDES ☐ 8151 HERBICIDES ☐ TCLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D W 200 8 ☐ TCLP ☐ RCL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PEROXIDE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐				
TIME ZONE Time zone/State	Field Sample I D	Lab #	Date	Time	Matrix	# of Containers						
MST / NMT												
0-39			8/11/21	0940	S	1	X	X	X	X		
0-40				0941								
0-41				0942								
0-42				0943								
0-43				0944								
0-44				0945								
0-45				0946								
0-46				0947								
0-47				0948								
0-48				0949								
0-49				0950								
0-50				0951								
0-51				0952								
0-52				0953								
0-53				0954								
TOTAL 15												
RELINQUISHED BY (Signature) <i>[Signature]</i>		DATE/TIME 8/17		RECEIVED BY (Signature) <i>[Signature]</i>		DATE/TIME 8/17/21		TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐			LABORATORY USE ONLY: RECEIVING TEMP <u>25/30</u> THERM# <u>108</u> CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # _____ ☐ HAND DELIVERED	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME						
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME						
LABORATORY		XENQ00										

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5188

No 1379

Varson & Associates, Inc.
Environmental Consultants507 N. Marientfeld, Ste. 200
Midland, TX 79701
432-687-0901**CHAIN-OF-CUSTODY**

Data Reported to

DATE 8/17/21 PAGE 2 OF 3
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palma 451
LAI PROJECT #: 20-0105-02 COLLECTOR: BSATRRP report?
☐ Yes ☒ NoS=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHERTIME ZONE
Time zone/State

MST / NM

Field
Sample I D

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX ☐ MTBE ☐TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐GASOLINE MOD 8015 ☐DIESEL - MOD 8015 ☐OIL - MOD 8015 ☐VOC 8260 ☐SVOC 8270 ☐8081 PESTICIDES ☐8082 PCBS ☐TBLP - METALS (RCRA) ☐TCLP - METALS (RCRA) ☐TOTAL METALS (RCRA) ☐LEAD - TOTAL ☐RCI ☐TDS ☐pH ☐EXPLOSIVES ☐CHLORIDE ☐ANIONS ☐ALKALINITY ☐CYANIDE ☐OTHER LIST ☐TCLP VOC ☐Semi-VOC ☐FLASHPOINT ☐% MOISTURE ☐PECHLORATE ☐

FIELD NOTES

THERM#

NOT USED

CARRIER BILL #

HAND DELIVERED

TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP

BROKEN ☐INTACT ☐

NOT USED

CUSTODY SEALS -

CARRIER BILL #

HAND DELIVERED

TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP

BROKEN ☐INTACT ☐

NOT USED

CUSTODY SEALS -

CARRIER BILL #

HAND DELIVERED

TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP

BROKEN ☐INTACT ☐

NOT USED

CUSTODY SEALS -

CARRIER BILL #

HAND DELIVERED

TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP

BROKEN ☐INTACT ☐

NOT USED

CUSTODY SEALS -

CARRIER BILL #

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NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

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CUSTODY SEALS -

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LABORATORY USE ONLY:

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LABORATORY USE ONLY:

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CUSTODY SEALS -

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LABORATORY USE ONLY:

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CUSTODY SEALS -

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LABORATORY USE ONLY:

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CUSTODY SEALS -

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LABORATORY USE ONLY:

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CUSTODY SEALS -

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LABORATORY USE ONLY:

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CUSTODY SEALS -

CARRIER BILL #

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TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

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NOT USED

CUSTODY SEALS -

CARRIER BILL #

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LABORATORY USE ONLY:

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CUSTODY SEALS -

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LABORATORY USE ONLY:

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CUSTODY SEALS -

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LABORATORY USE ONLY:

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BROKEN ☐INTACT ☐

NOT USED

CUSTODY SEALS -

CARRIER BILL #

HAND DELIVERED

TURN AROUND TIME

NORMAL ☒1 DAY ☐

Z
 10
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[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-5188-1

SDG Number: 21-0105-02

Login Number: 5188

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-5224-1

Laboratory Sample Delivery Group: 21-0105-02

Client Project/Site: Select Energy-Palmio AST

For:

Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
8/25/2021 10:38:05 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through

TotalAccess

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Laboratory Job ID: 880-5224-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Job ID: 880-5224-1**Laboratory: Eurofins Xenco, Midland****Narrative****Job Narrative
880-5224-1****Receipt**

The samples were received on 8/18/2021 11:12 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6740 and analytical batch 880-6879 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6738 and 880-6738 and analytical batch 880-6813 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-87 (880-5224-12) and C-88 (880-5224-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-77 (880-5224-2), C-82 (880-5224-7) and C-84 (880-5224-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6740 and analytical batch 880-6879 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-6740/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-76

Lab Sample ID: 880-5224-1

Date Collected: 08/16/21 14:00

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		08/18/21 13:59	08/19/21 18:16	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		08/18/21 13:59	08/19/21 18:16	1
Ethylbenzene	<0.00199	U F1 F2	0.00199	mg/Kg		08/18/21 13:59	08/19/21 18:16	1
m,p-Xylenes	<0.00398	U F1 F2	0.00398	mg/Kg		08/18/21 13:59	08/19/21 18:16	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		08/18/21 13:59	08/19/21 18:16	1
Xylenes, Total	<0.00398	U F1 F2	0.00398	mg/Kg		08/18/21 13:59	08/19/21 18:16	1
Total BTEX	<0.00398	U F1 F2	0.00398	mg/Kg		08/18/21 13:59	08/19/21 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	08/18/21 13:59	08/19/21 18:16	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/18/21 13:59	08/19/21 18:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/20/21 23:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/20/21 23:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/20/21 23:04	1
Total TPH	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/20/21 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	08/19/21 13:59	08/20/21 23:04	1
o-Terphenyl (Surr)	116		70 - 130	08/19/21 13:59	08/20/21 23:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.3		4.99	mg/Kg			08/24/21 17:47	1

Client Sample ID: C-77

Lab Sample ID: 880-5224-2

Date Collected: 08/16/21 14:01

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00915		0.00200	mg/Kg		08/18/21 13:59	08/19/21 18:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 18:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 18:37	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/18/21 13:59	08/19/21 18:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 18:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/21 13:59	08/19/21 18:37	1
Total BTEX	0.00915		0.00400	mg/Kg		08/18/21 13:59	08/19/21 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	170	S1+	70 - 130	08/18/21 13:59	08/19/21 18:37	1
1,4-Difluorobenzene (Surr)	85		70 - 130	08/18/21 13:59	08/19/21 18:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 00:07	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-77

Lab Sample ID: 880-5224-2

Date Collected: 08/16/21 14:01

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 00:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 00:07	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 00:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			08/19/21 13:59	08/21/21 00:07	1
o-Terphenyl (Surr)	107		70 - 130			08/19/21 13:59	08/21/21 00:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.6		5.04	mg/Kg			08/24/21 18:04	1

Client Sample ID: C-78

Lab Sample ID: 880-5224-3

Date Collected: 08/16/21 14:02

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 18:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 18:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 18:57	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/18/21 13:59	08/19/21 18:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 18:57	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/21 13:59	08/19/21 18:57	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/18/21 13:59	08/19/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			08/18/21 13:59	08/19/21 18:57	1
1,4-Difluorobenzene (Surr)	112		70 - 130			08/18/21 13:59	08/19/21 18:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 00:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 00:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 00:28	1
Total TPH	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			08/19/21 13:59	08/21/21 00:28	1
o-Terphenyl (Surr)	107		70 - 130			08/19/21 13:59	08/21/21 00:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		4.98	mg/Kg			08/24/21 18:10	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-79

Lab Sample ID: 880-5224-4

Date Collected: 08/16/21 14:03

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/18/21 13:59	08/19/21 19:18	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/21 13:59	08/19/21 19:18	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/21 13:59	08/19/21 19:18	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		08/18/21 13:59	08/19/21 19:18	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/21 13:59	08/19/21 19:18	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/21 13:59	08/19/21 19:18	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/18/21 13:59	08/19/21 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/18/21 13:59	08/19/21 19:18	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/18/21 13:59	08/19/21 19:18	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 00:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 00:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 00:49	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	08/19/21 13:59	08/21/21 00:49	1
o-Terphenyl (Surr)	115		70 - 130	08/19/21 13:59	08/21/21 00:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		4.95	mg/Kg			08/24/21 18:15	1

Client Sample ID: C-80

Lab Sample ID: 880-5224-5

Date Collected: 08/16/21 14:04

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/19/21 19:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/19/21 19:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/19/21 19:39	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/18/21 13:59	08/19/21 19:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/19/21 19:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/21 13:59	08/19/21 19:39	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/18/21 13:59	08/19/21 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/18/21 13:59	08/19/21 19:39	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/18/21 13:59	08/19/21 19:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 01:10	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-80

Lab Sample ID: 880-5224-5

Date Collected: 08/16/21 14:04

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 01:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 01:10	1
Total TPH	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 01:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			08/19/21 13:59	08/21/21 01:10	1
o-Terphenyl (Surr)	114		70 - 130			08/19/21 13:59	08/21/21 01:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.2		5.05	mg/Kg			08/24/21 18:21	1

Client Sample ID: C-81

Lab Sample ID: 880-5224-6

Date Collected: 08/16/21 14:05

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/19/21 19:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/19/21 19:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/19/21 19:59	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/18/21 13:59	08/19/21 19:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/19/21 19:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/21 13:59	08/19/21 19:59	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/18/21 13:59	08/19/21 19:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			08/18/21 13:59	08/19/21 19:59	1
1,4-Difluorobenzene (Surr)	82		70 - 130			08/18/21 13:59	08/19/21 19:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 01:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 01:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 01:31	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 01:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			08/19/21 13:59	08/21/21 01:31	1
o-Terphenyl (Surr)	115		70 - 130			08/19/21 13:59	08/21/21 01:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.1		4.97	mg/Kg			08/24/21 18:38	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-82

Lab Sample ID: 880-5224-7

Date Collected: 08/16/21 14:06

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/18/21 13:59	08/19/21 20:20	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/21 13:59	08/19/21 20:20	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/21 13:59	08/19/21 20:20	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		08/18/21 13:59	08/19/21 20:20	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/21 13:59	08/19/21 20:20	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/21 13:59	08/19/21 20:20	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		08/18/21 13:59	08/19/21 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/18/21 13:59	08/19/21 20:20	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	08/18/21 13:59	08/19/21 20:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 01:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 01:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 01:53	1
Total TPH	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	08/19/21 13:59	08/21/21 01:53	1
o-Terphenyl (Surr)	112		70 - 130	08/19/21 13:59	08/21/21 01:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		4.95	mg/Kg			08/24/21 18:43	1

Client Sample ID: C-83

Lab Sample ID: 880-5224-8

Date Collected: 08/16/21 14:07

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 20:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 20:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 20:41	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/18/21 13:59	08/19/21 20:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 20:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/21 13:59	08/19/21 20:41	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/18/21 13:59	08/19/21 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/18/21 13:59	08/19/21 20:41	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/18/21 13:59	08/19/21 20:41	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 02:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-83

Lab Sample ID: 880-5224-8

Date Collected: 08/16/21 14:07

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 02:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 02:14	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 02:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			08/19/21 13:59	08/21/21 02:14	1
o-Terphenyl (Surr)	114		70 - 130			08/19/21 13:59	08/21/21 02:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		5.01	mg/Kg			08/24/21 18:49	1

Client Sample ID: C-84

Lab Sample ID: 880-5224-9

Date Collected: 08/16/21 14:08

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/18/21 13:59	08/19/21 21:01	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/21 13:59	08/19/21 21:01	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/21 13:59	08/19/21 21:01	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		08/18/21 13:59	08/19/21 21:01	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/21 13:59	08/19/21 21:01	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/21 13:59	08/19/21 21:01	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		08/18/21 13:59	08/19/21 21:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			08/18/21 13:59	08/19/21 21:01	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130			08/18/21 13:59	08/19/21 21:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 02:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 02:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 02:35	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 02:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			08/19/21 13:59	08/21/21 02:35	1
o-Terphenyl (Surr)	110		70 - 130			08/19/21 13:59	08/21/21 02:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.0		4.98	mg/Kg			08/24/21 18:55	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-85

Lab Sample ID: 880-5224-10

Date Collected: 08/16/21 14:09

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 21:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 21:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 21:22	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/18/21 13:59	08/19/21 21:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 21:22	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/21 13:59	08/19/21 21:22	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/18/21 13:59	08/19/21 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/18/21 13:59	08/19/21 21:22	1
1,4-Difluorobenzene (Surr)	70		70 - 130	08/18/21 13:59	08/19/21 21:22	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 02:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 02:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 02:57	1
Total TPH	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	08/19/21 13:59	08/21/21 02:57	1
o-Terphenyl (Surr)	124		70 - 130	08/19/21 13:59	08/21/21 02:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.0		5.00	mg/Kg			08/24/21 19:00	1

Client Sample ID: C-86

Lab Sample ID: 880-5224-11

Date Collected: 08/16/21 14:10

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 22:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 22:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 22:43	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/18/21 13:59	08/19/21 22:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 22:43	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/21 13:59	08/19/21 22:43	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/18/21 13:59	08/19/21 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/18/21 13:59	08/19/21 22:43	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/18/21 13:59	08/19/21 22:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 03:40	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-86

Lab Sample ID: 880-5224-11

Date Collected: 08/16/21 14:10

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 03:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 03:40	1
Total TPH	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 03:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			08/19/21 13:59	08/21/21 03:40	1
o-Terphenyl (Surr)	102		70 - 130			08/19/21 13:59	08/21/21 03:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.4	F1	5.00	mg/Kg			08/24/21 19:06	1

Client Sample ID: C-87

Lab Sample ID: 880-5224-12

Date Collected: 08/16/21 14:11

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00363		0.00198	mg/Kg		08/18/21 13:59	08/19/21 23:04	1
Toluene	0.00593		0.00198	mg/Kg		08/18/21 13:59	08/19/21 23:04	1
Ethylbenzene	0.00466		0.00198	mg/Kg		08/18/21 13:59	08/19/21 23:04	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		08/18/21 13:59	08/19/21 23:04	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/21 13:59	08/19/21 23:04	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/21 13:59	08/19/21 23:04	1
Total BTEX	0.0142		0.00396	mg/Kg		08/18/21 13:59	08/19/21 23:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	184	S1+	70 - 130			08/18/21 13:59	08/19/21 23:04	1
1,4-Difluorobenzene (Surr)	108		70 - 130			08/18/21 13:59	08/19/21 23:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 04:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 04:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 04:02	1
Total TPH	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 04:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			08/19/21 13:59	08/21/21 04:02	1
o-Terphenyl (Surr)	104		70 - 130			08/19/21 13:59	08/21/21 04:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3		4.99	mg/Kg			08/24/21 19:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-88

Lab Sample ID: 880-5224-13

Date Collected: 08/16/21 14:12

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 23:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 23:24	1
Ethylbenzene	0.00220		0.00200	mg/Kg		08/18/21 13:59	08/19/21 23:24	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/18/21 13:59	08/19/21 23:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 23:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/21 13:59	08/19/21 23:24	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/18/21 13:59	08/19/21 23:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/18/21 13:59	08/19/21 23:24	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	08/18/21 13:59	08/19/21 23:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 04:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 04:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 04:23	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	08/19/21 13:59	08/21/21 04:23	1
o-Terphenyl (Surr)	114		70 - 130	08/19/21 13:59	08/21/21 04:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.8		5.04	mg/Kg			08/24/21 19:28	1

Client Sample ID: C-89

Lab Sample ID: 880-5224-14

Date Collected: 08/16/21 14:13

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/19/21 23:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/19/21 23:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/19/21 23:45	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/18/21 13:59	08/19/21 23:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/19/21 23:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/21 13:59	08/19/21 23:45	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/18/21 13:59	08/19/21 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/18/21 13:59	08/19/21 23:45	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/18/21 13:59	08/19/21 23:45	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 04:43	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-89

Lab Sample ID: 880-5224-14

Date Collected: 08/16/21 14:13

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 04:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 04:43	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 04:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			08/19/21 13:59	08/21/21 04:43	1
o-Terphenyl (Surr)	117		70 - 130			08/19/21 13:59	08/21/21 04:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U F1	4.99	mg/Kg			08/22/21 17:10	1

Client Sample ID: C-90

Lab Sample ID: 880-5224-15

Date Collected: 08/16/21 14:14

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/18/21 13:59	08/20/21 00:05	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/21 13:59	08/20/21 00:05	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/21 13:59	08/20/21 00:05	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		08/18/21 13:59	08/20/21 00:05	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/21 13:59	08/20/21 00:05	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/21 13:59	08/20/21 00:05	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		08/18/21 13:59	08/20/21 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			08/18/21 13:59	08/20/21 00:05	1
1,4-Difluorobenzene (Surr)	85		70 - 130			08/18/21 13:59	08/20/21 00:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 05:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 05:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 05:04	1
Total TPH	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 05:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			08/19/21 13:59	08/21/21 05:04	1
o-Terphenyl (Surr)	112		70 - 130			08/19/21 13:59	08/21/21 05:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			08/22/21 17:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-91

Lab Sample ID: 880-5224-16

Date Collected: 08/16/21 14:15

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/20/21 00:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/20/21 00:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/20/21 00:26	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/18/21 13:59	08/20/21 00:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/21 13:59	08/20/21 00:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/21 13:59	08/20/21 00:26	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/18/21 13:59	08/20/21 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/18/21 13:59	08/20/21 00:26	1
1,4-Difluorobenzene (Surr)	77		70 - 130	08/18/21 13:59	08/20/21 00:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 05:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 05:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 05:24	1
Total TPH	<49.9	U	49.9	mg/Kg		08/19/21 13:59	08/21/21 05:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	08/19/21 13:59	08/21/21 05:24	1
o-Terphenyl (Surr)	112		70 - 130	08/19/21 13:59	08/21/21 05:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.7		5.04	mg/Kg			08/22/21 17:33	1

Client Sample ID: C-92

Lab Sample ID: 880-5224-17

Date Collected: 08/16/21 14:16

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/18/21 13:59	08/20/21 00:46	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/21 13:59	08/20/21 00:46	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/21 13:59	08/20/21 00:46	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		08/18/21 13:59	08/20/21 00:46	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/21 13:59	08/20/21 00:46	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/21 13:59	08/20/21 00:46	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		08/18/21 13:59	08/20/21 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/18/21 13:59	08/20/21 00:46	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/18/21 13:59	08/20/21 00:46	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 05:43	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-92

Lab Sample ID: 880-5224-17

Date Collected: 08/16/21 14:16

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 05:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 05:43	1
Total TPH	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 05:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			08/19/21 13:59	08/21/21 05:43	1
o-Terphenyl (Surr)	111		70 - 130			08/19/21 13:59	08/21/21 05:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			08/22/21 17:39	1

Client Sample ID: C-93

Lab Sample ID: 880-5224-18

Date Collected: 08/16/21 14:17

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/20/21 01:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/20/21 01:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/20/21 01:07	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		08/18/21 13:59	08/20/21 01:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/20/21 01:07	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/18/21 13:59	08/20/21 01:07	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/18/21 13:59	08/20/21 01:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			08/18/21 13:59	08/20/21 01:07	1
1,4-Difluorobenzene (Surr)	110		70 - 130			08/18/21 13:59	08/20/21 01:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 06:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 06:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 06:04	1
Total TPH	<49.8	U	49.8	mg/Kg		08/19/21 13:59	08/21/21 06:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			08/19/21 13:59	08/21/21 06:04	1
o-Terphenyl (Surr)	112		70 - 130			08/19/21 13:59	08/21/21 06:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			08/22/21 17:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-94

Lab Sample ID: 880-5224-19

Date Collected: 08/16/21 14:18

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/20/21 01:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/20/21 01:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/20/21 01:27	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		08/18/21 13:59	08/20/21 01:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/20/21 01:27	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/18/21 13:59	08/20/21 01:27	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/18/21 13:59	08/20/21 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/18/21 13:59	08/20/21 01:27	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/18/21 13:59	08/20/21 01:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 06:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 06:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 06:23	1
Total TPH	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 06:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	08/19/21 13:59	08/21/21 06:23	1
o-Terphenyl (Surr)	117		70 - 130	08/19/21 13:59	08/21/21 06:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			08/22/21 18:01	1

Client Sample ID: C-95

Lab Sample ID: 880-5224-20

Date Collected: 08/16/21 14:19

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/18/21 13:59	08/20/21 01:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/21 13:59	08/20/21 01:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/21 13:59	08/20/21 01:48	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		08/18/21 13:59	08/20/21 01:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/21 13:59	08/20/21 01:48	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/21 13:59	08/20/21 01:48	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/18/21 13:59	08/20/21 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/18/21 13:59	08/20/21 01:48	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/18/21 13:59	08/20/21 01:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 06:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-95

Lab Sample ID: 880-5224-20

Date Collected: 08/16/21 14:19

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 06:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 06:44	1
Total TPH	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/21/21 06:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			08/19/21 13:59	08/21/21 06:44	1
o-Terphenyl (Surr)	113		70 - 130			08/19/21 13:59	08/21/21 06:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			08/22/21 18:07	1

Client Sample ID: C-96

Lab Sample ID: 880-5224-21

Date Collected: 08/16/21 14:20

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- F1 F2	0.00199	mg/Kg		08/18/21 14:09	08/22/21 00:09	1
Toluene	<0.00199	U *- F1 F2	0.00199	mg/Kg		08/18/21 14:09	08/22/21 00:09	1
Ethylbenzene	<0.00199	U *- F1 F2	0.00199	mg/Kg		08/18/21 14:09	08/22/21 00:09	1
m,p-Xylenes	<0.00398	U *- F1 F2	0.00398	mg/Kg		08/18/21 14:09	08/22/21 00:09	1
o-Xylene	<0.00199	U *- F1 F2	0.00199	mg/Kg		08/18/21 14:09	08/22/21 00:09	1
Xylenes, Total	<0.00398	U *- F1 F2	0.00398	mg/Kg		08/18/21 14:09	08/22/21 00:09	1
Total BTEX	<0.00398	U *- F1 F2	0.00398	mg/Kg		08/18/21 14:09	08/22/21 00:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			08/18/21 14:09	08/22/21 00:09	1
1,4-Difluorobenzene (Surr)	103		70 - 130			08/18/21 14:09	08/22/21 00:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/20/21 08:58	08/20/21 23:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/20/21 08:58	08/20/21 23:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/20/21 08:58	08/20/21 23:01	1
Total TPH	<50.0	U	50.0	mg/Kg		08/20/21 08:58	08/20/21 23:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			08/20/21 08:58	08/20/21 23:01	1
o-Terphenyl (Surr)	100		70 - 130			08/20/21 08:58	08/20/21 23:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			08/22/21 18:13	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-97

Lab Sample ID: 880-5224-22

Date Collected: 08/16/21 14:21

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199	mg/Kg		08/18/21 14:09	08/22/21 00:35	1
Toluene	<0.00199	U *	0.00199	mg/Kg		08/18/21 14:09	08/22/21 00:35	1
Ethylbenzene	<0.00199	U *	0.00199	mg/Kg		08/18/21 14:09	08/22/21 00:35	1
m,p-Xylenes	<0.00398	U *	0.00398	mg/Kg		08/18/21 14:09	08/22/21 00:35	1
o-Xylene	<0.00199	U *	0.00199	mg/Kg		08/18/21 14:09	08/22/21 00:35	1
Xylenes, Total	<0.00398	U *	0.00398	mg/Kg		08/18/21 14:09	08/22/21 00:35	1
Total BTEX	<0.00398	U *	0.00398	mg/Kg		08/18/21 14:09	08/22/21 00:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/18/21 14:09	08/22/21 00:35	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/18/21 14:09	08/22/21 00:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 00:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 00:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 00:05	1
Total TPH	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	08/20/21 08:58	08/21/21 00:05	1
o-Terphenyl (Surr)	93		70 - 130	08/20/21 08:58	08/21/21 00:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.17		4.99	mg/Kg			08/22/21 18:18	1

Client Sample ID: C-98

Lab Sample ID: 880-5224-23

Date Collected: 08/16/21 14:22

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		08/18/21 14:09	08/22/21 01:00	1
Toluene	<0.00200	U *	0.00200	mg/Kg		08/18/21 14:09	08/22/21 01:00	1
Ethylbenzene	<0.00200	U *	0.00200	mg/Kg		08/18/21 14:09	08/22/21 01:00	1
m,p-Xylenes	<0.00401	U *	0.00401	mg/Kg		08/18/21 14:09	08/22/21 01:00	1
o-Xylene	<0.00200	U *	0.00200	mg/Kg		08/18/21 14:09	08/22/21 01:00	1
Xylenes, Total	<0.00401	U *	0.00401	mg/Kg		08/18/21 14:09	08/22/21 01:00	1
Total BTEX	<0.00401	U *	0.00401	mg/Kg		08/18/21 14:09	08/22/21 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/18/21 14:09	08/22/21 01:00	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/18/21 14:09	08/22/21 01:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 00:26	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-98

Lab Sample ID: 880-5224-23

Date Collected: 08/16/21 14:22

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 00:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 00:26	1
Total TPH	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 00:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			08/20/21 08:58	08/21/21 00:26	1
o-Terphenyl (Surr)	112		70 - 130			08/20/21 08:58	08/21/21 00:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/22/21 18:24	1

Client Sample ID: C-99

Lab Sample ID: 880-5224-24

Date Collected: 08/16/21 14:23

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *	0.00202	mg/Kg		08/18/21 14:09	08/22/21 01:26	1
Toluene	<0.00202	U *	0.00202	mg/Kg		08/18/21 14:09	08/22/21 01:26	1
Ethylbenzene	<0.00202	U *	0.00202	mg/Kg		08/18/21 14:09	08/22/21 01:26	1
m,p-Xylenes	<0.00404	U *	0.00404	mg/Kg		08/18/21 14:09	08/22/21 01:26	1
o-Xylene	<0.00202	U *	0.00202	mg/Kg		08/18/21 14:09	08/22/21 01:26	1
Xylenes, Total	<0.00404	U *	0.00404	mg/Kg		08/18/21 14:09	08/22/21 01:26	1
Total BTEX	<0.00404	U *	0.00404	mg/Kg		08/18/21 14:09	08/22/21 01:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			08/18/21 14:09	08/22/21 01:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130			08/18/21 14:09	08/22/21 01:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 00:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 00:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 00:48	1
Total TPH	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 00:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			08/20/21 08:58	08/21/21 00:48	1
o-Terphenyl (Surr)	97		70 - 130			08/20/21 08:58	08/21/21 00:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02	mg/Kg			08/22/21 18:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-100

Lab Sample ID: 880-5224-25

Date Collected: 08/16/21 14:24

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *	0.00202	mg/Kg		08/18/21 14:09	08/22/21 01:52	1
Toluene	<0.00202	U *	0.00202	mg/Kg		08/18/21 14:09	08/22/21 01:52	1
Ethylbenzene	<0.00202	U *	0.00202	mg/Kg		08/18/21 14:09	08/22/21 01:52	1
m,p-Xylenes	<0.00404	U *	0.00404	mg/Kg		08/18/21 14:09	08/22/21 01:52	1
o-Xylene	<0.00202	U *	0.00202	mg/Kg		08/18/21 14:09	08/22/21 01:52	1
Xylenes, Total	<0.00404	U *	0.00404	mg/Kg		08/18/21 14:09	08/22/21 01:52	1
Total BTEX	<0.00404	U *	0.00404	mg/Kg		08/18/21 14:09	08/22/21 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/18/21 14:09	08/22/21 01:52	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/18/21 14:09	08/22/21 01:52	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 01:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 01:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 01:09	1
Total TPH	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	08/20/21 08:58	08/21/21 01:09	1
o-Terphenyl (Surr)	93		70 - 130	08/20/21 08:58	08/21/21 01:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			08/22/21 18:47	1

Client Sample ID: C-101

Lab Sample ID: 880-5224-26

Date Collected: 08/16/21 14:25

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		08/18/21 14:09	08/22/21 02:18	1
Toluene	<0.00200	U *	0.00200	mg/Kg		08/18/21 14:09	08/22/21 02:18	1
Ethylbenzene	<0.00200	U *	0.00200	mg/Kg		08/18/21 14:09	08/22/21 02:18	1
m,p-Xylenes	<0.00399	U *	0.00399	mg/Kg		08/18/21 14:09	08/22/21 02:18	1
o-Xylene	<0.00200	U *	0.00200	mg/Kg		08/18/21 14:09	08/22/21 02:18	1
Xylenes, Total	<0.00399	U *	0.00399	mg/Kg		08/18/21 14:09	08/22/21 02:18	1
Total BTEX	<0.00399	U *	0.00399	mg/Kg		08/18/21 14:09	08/22/21 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/18/21 14:09	08/22/21 02:18	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/18/21 14:09	08/22/21 02:18	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 01:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-101

Lab Sample ID: 880-5224-26

Date Collected: 08/16/21 14:25

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 01:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 01:30	1
Total TPH	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 01:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			08/20/21 08:58	08/21/21 01:30	1
o-Terphenyl (Surr)	96		70 - 130			08/20/21 08:58	08/21/21 01:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/22/21 18:52	1

Client Sample ID: C-102

Lab Sample ID: 880-5224-27

Date Collected: 08/16/21 14:26

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		08/18/21 14:09	08/22/21 02:43	1
Toluene	<0.00200	U *	0.00200	mg/Kg		08/18/21 14:09	08/22/21 02:43	1
Ethylbenzene	<0.00200	U *	0.00200	mg/Kg		08/18/21 14:09	08/22/21 02:43	1
m,p-Xylenes	<0.00400	U *	0.00400	mg/Kg		08/18/21 14:09	08/22/21 02:43	1
o-Xylene	<0.00200	U *	0.00200	mg/Kg		08/18/21 14:09	08/22/21 02:43	1
Xylenes, Total	<0.00400	U *	0.00400	mg/Kg		08/18/21 14:09	08/22/21 02:43	1
Total BTEX	<0.00400	U *	0.00400	mg/Kg		08/18/21 14:09	08/22/21 02:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			08/18/21 14:09	08/22/21 02:43	1
1,4-Difluorobenzene (Surr)	115		70 - 130			08/18/21 14:09	08/22/21 02:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 01:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 01:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 01:52	1
Total TPH	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 01:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			08/20/21 08:58	08/21/21 01:52	1
o-Terphenyl (Surr)	94		70 - 130			08/20/21 08:58	08/21/21 01:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			08/22/21 19:09	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-103

Lab Sample ID: 880-5224-28

Date Collected: 08/16/21 14:27

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *	0.00202	mg/Kg		08/18/21 14:09	08/22/21 03:09	1
Toluene	<0.00202	U *	0.00202	mg/Kg		08/18/21 14:09	08/22/21 03:09	1
Ethylbenzene	<0.00202	U *	0.00202	mg/Kg		08/18/21 14:09	08/22/21 03:09	1
m,p-Xylenes	<0.00403	U *	0.00403	mg/Kg		08/18/21 14:09	08/22/21 03:09	1
o-Xylene	<0.00202	U *	0.00202	mg/Kg		08/18/21 14:09	08/22/21 03:09	1
Xylenes, Total	<0.00403	U *	0.00403	mg/Kg		08/18/21 14:09	08/22/21 03:09	1
Total BTEX	<0.00403	U *	0.00403	mg/Kg		08/18/21 14:09	08/22/21 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/18/21 14:09	08/22/21 03:09	1
1,4-Difluorobenzene (Surr)	117		70 - 130	08/18/21 14:09	08/22/21 03:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 02:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 02:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 02:13	1
Total TPH	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 02:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130	08/20/21 08:58	08/21/21 02:13	1
o-Terphenyl (Surr)	92		70 - 130	08/20/21 08:58	08/21/21 02:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			08/22/21 19:15	1

Client Sample ID: C-104

Lab Sample ID: 880-5224-29

Date Collected: 08/16/21 14:28

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199	mg/Kg		08/18/21 14:09	08/22/21 03:34	1
Toluene	<0.00199	U *	0.00199	mg/Kg		08/18/21 14:09	08/22/21 03:34	1
Ethylbenzene	<0.00199	U *	0.00199	mg/Kg		08/18/21 14:09	08/22/21 03:34	1
m,p-Xylenes	<0.00398	U *	0.00398	mg/Kg		08/18/21 14:09	08/22/21 03:34	1
o-Xylene	<0.00199	U *	0.00199	mg/Kg		08/18/21 14:09	08/22/21 03:34	1
Xylenes, Total	<0.00398	U *	0.00398	mg/Kg		08/18/21 14:09	08/22/21 03:34	1
Total BTEX	<0.00398	U *	0.00398	mg/Kg		08/18/21 14:09	08/22/21 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/18/21 14:09	08/22/21 03:34	1
1,4-Difluorobenzene (Surr)	120		70 - 130	08/18/21 14:09	08/22/21 03:34	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 02:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-104

Lab Sample ID: 880-5224-29

Date Collected: 08/16/21 14:28

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 02:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 02:35	1
Total TPH	<49.9	U	49.9	mg/Kg		08/20/21 08:58	08/21/21 02:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			08/20/21 08:58	08/21/21 02:35	1
o-Terphenyl (Surr)	107		70 - 130			08/20/21 08:58	08/21/21 02:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			08/22/21 19:21	1

Client Sample ID: C-105

Lab Sample ID: 880-5224-30

Date Collected: 08/16/21 14:29

Matrix: Solid

Date Received: 08/18/21 11:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *	0.00201	mg/Kg		08/18/21 14:09	08/22/21 04:00	1
Toluene	<0.00201	U *	0.00201	mg/Kg		08/18/21 14:09	08/22/21 04:00	1
Ethylbenzene	<0.00201	U *	0.00201	mg/Kg		08/18/21 14:09	08/22/21 04:00	1
m,p-Xylenes	<0.00402	U *	0.00402	mg/Kg		08/18/21 14:09	08/22/21 04:00	1
o-Xylene	<0.00201	U *	0.00201	mg/Kg		08/18/21 14:09	08/22/21 04:00	1
Xylenes, Total	<0.00402	U *	0.00402	mg/Kg		08/18/21 14:09	08/22/21 04:00	1
Total BTEX	<0.00402	U *	0.00402	mg/Kg		08/18/21 14:09	08/22/21 04:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			08/18/21 14:09	08/22/21 04:00	1
1,4-Difluorobenzene (Surr)	116		70 - 130			08/18/21 14:09	08/22/21 04:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 02:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 02:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 02:56	1
Total TPH	<49.8	U	49.8	mg/Kg		08/20/21 08:58	08/21/21 02:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			08/20/21 08:58	08/21/21 02:56	1
o-Terphenyl (Surr)	115		70 - 130			08/20/21 08:58	08/21/21 02:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			08/22/21 19:26	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-5224-1	C-76	84	83
880-5224-1 MS	C-76	120	101
880-5224-1 MSD	C-76	100	93
880-5224-2	C-77	170 S1+	85
880-5224-3	C-78	129	112
880-5224-4	C-79	107	91
880-5224-5	C-80	110	90
880-5224-6	C-81	101	82
880-5224-7	C-82	110	67 S1-
880-5224-8	C-83	104	80
880-5224-9	C-84	108	63 S1-
880-5224-10	C-85	107	70
880-5224-11	C-86	97	92
880-5224-12	C-87	184 S1+	108
880-5224-13	C-88	103	67 S1-
880-5224-14	C-89	121	81
880-5224-15	C-90	102	85
880-5224-16	C-91	122	77
880-5224-17	C-92	99	88
880-5224-18	C-93	120	110
880-5224-19	C-94	122	94
880-5224-20	C-95	105	88
880-5224-21	C-96	112	103
880-5224-21 MS	C-96	99	116
880-5224-21 MSD	C-96	98	118
880-5224-22	C-97	109	115
880-5224-23	C-98	103	116
880-5224-24	C-99	88	93
880-5224-25	C-100	103	115
880-5224-26	C-101	100	110
880-5224-27	C-102	105	115
880-5224-28	C-103	112	117
880-5224-29	C-104	104	120
880-5224-30	C-105	100	116
LCS 880-6738/1-A	Lab Control Sample	100	87
LCS 880-6879/3	Lab Control Sample	96	120
LCSD 880-6738/2-A	Lab Control Sample Dup	109	109
LCSD 880-6740/2-A	Lab Control Sample Dup	97	118
LCSD 880-6879/4	Lab Control Sample Dup	90	119
MB 880-6738/5-A	Method Blank	101	103
MB 880-6740/5-A	Method Blank	64 S1-	99
MB 880-6879/8	Method Blank	61 S1-	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-5224-1

Project/Site: Select Energy-Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-5224-1	C-76	102	116
880-5224-1 MS	C-76	95	99
880-5224-1 MSD	C-76	94	94
880-5224-2	C-77	95	107
880-5224-3	C-78	97	107
880-5224-4	C-79	103	115
880-5224-5	C-80	101	114
880-5224-6	C-81	101	115
880-5224-7	C-82	96	112
880-5224-8	C-83	98	114
880-5224-9	C-84	95	110
880-5224-10	C-85	108	124
880-5224-11	C-86	91	102
880-5224-12	C-87	93	104
880-5224-13	C-88	100	114
880-5224-14	C-89	103	117
880-5224-15	C-90	99	112
880-5224-16	C-91	100	112
880-5224-17	C-92	98	111
880-5224-18	C-93	99	112
880-5224-19	C-94	102	117
880-5224-20	C-95	96	113
880-5224-21	C-96	93	100
880-5224-21 MS	C-96	79	81
880-5224-21 MSD	C-96	88	91
880-5224-22	C-97	84	93
880-5224-23	C-98	99	112
880-5224-24	C-99	87	97
880-5224-25	C-100	87	93
880-5224-26	C-101	87	96
880-5224-27	C-102	83	94
880-5224-28	C-103	78	92
880-5224-29	C-104	98	107
880-5224-30	C-105	103	115
LCS 880-6815/2-A	Lab Control Sample	123	129
LCS 880-6836/2-A	Lab Control Sample	96	105
LCSD 880-6815/3-A	Lab Control Sample Dup	124	127
LCSD 880-6836/3-A	Lab Control Sample Dup	110	119
MB 880-6815/1-A	Method Blank	109	125
MB 880-6836/1-A	Method Blank	107	116

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6738/5-A

Matrix: Solid

Analysis Batch: 6813

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6738

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 17:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 17:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 17:54	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/18/21 13:59	08/19/21 17:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 13:59	08/19/21 17:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/21 13:59	08/19/21 17:54	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/18/21 13:59	08/19/21 17:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/18/21 13:59	08/19/21 17:54	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/18/21 13:59	08/19/21 17:54	1

Lab Sample ID: LCS 880-6738/1-A

Matrix: Solid

Analysis Batch: 6813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08657		mg/Kg		87	70 - 130
Toluene	0.100	0.09413		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09605		mg/Kg		96	70 - 130
m,p-Xylenes	0.200	0.1682		mg/Kg		84	70 - 130
o-Xylene	0.100	0.07926		mg/Kg		79	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-6738/2-A

Matrix: Solid

Analysis Batch: 6813

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6738

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08507		mg/Kg		85	70 - 130	2	35
Toluene	0.100	0.1017		mg/Kg		102	70 - 130	8	35
Ethylbenzene	0.100	0.1067		mg/Kg		107	70 - 130	11	35
m,p-Xylenes	0.200	0.1927		mg/Kg		96	70 - 130	14	35
o-Xylene	0.100	0.09122		mg/Kg		91	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-5224-1 MS

Matrix: Solid

Analysis Batch: 6813

Client Sample ID: C-76

Prep Type: Total/NA

Prep Batch: 6738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.101	0.06220	F1	mg/Kg		61	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5224-1 MS

Matrix: Solid

Analysis Batch: 6813

Client Sample ID: C-76

Prep Type: Total/NA

Prep Batch: 6738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00199	U F1	0.101	0.08688		mg/Kg		86	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.101	0.09915		mg/Kg		99	70 - 130
m,p-Xylenes	<0.00398	U F1 F2	0.201	0.1752		mg/Kg		87	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.07885		mg/Kg		78	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	120		70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: 880-5224-1 MSD

Matrix: Solid

Analysis Batch: 6813

Client Sample ID: C-76

Prep Type: Total/NA

Prep Batch: 6738

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.04553	F1	mg/Kg		45	70 - 130	31	35
Toluene	<0.00199	U F1	0.0998	0.06478	F1	mg/Kg		65	70 - 130	29	35
Ethylbenzene	<0.00199	U F1 F2	0.0998	0.06355	F1 F2	mg/Kg		64	70 - 130	44	35
m,p-Xylenes	<0.00398	U F1 F2	0.200	0.1175	F1 F2	mg/Kg		59	70 - 130	39	35
o-Xylene	<0.00199	U F1	0.0998	0.05742	F1	mg/Kg		58	70 - 130	31	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		70 - 130								
1,4-Difluorobenzene (Surr)	93		70 - 130								

Lab Sample ID: MB 880-6740/5-A

Matrix: Solid

Analysis Batch: 6879

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6740

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 14:09	08/21/21 23:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 14:09	08/21/21 23:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 14:09	08/21/21 23:44	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/18/21 14:09	08/21/21 23:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 14:09	08/21/21 23:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/21 14:09	08/21/21 23:44	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/18/21 14:09	08/21/21 23:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130			08/18/21 14:09	08/21/21 23:44	1
1,4-Difluorobenzene (Surr)	99		70 - 130			08/18/21 14:09	08/21/21 23:44	1

Lab Sample ID: LCSD 880-6740/2-A

Matrix: Solid

Analysis Batch: 6879

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6740

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.200	0.1039	*	mg/Kg		52	70 - 130	8	35
Toluene	0.200	0.1030	*	mg/Kg		52	70 - 130	7	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-6740/2-A

Matrix: Solid

Analysis Batch: 6879

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6740

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.200	0.1022	*-	mg/Kg		51	70 - 130	1	35
m,p-Xylenes	0.400	0.2039	*-	mg/Kg		51	70 - 130	4	35
o-Xylene	0.200	0.09995	*-	mg/Kg		50	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-5224-21 MS

Matrix: Solid

Analysis Batch: 6879

Client Sample ID: C-96

Prep Type: Total/NA

Prep Batch: 6740

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U *- F1 F2	0.0994	0.006988	F1	mg/Kg		7	70 - 130
Toluene	<0.00199	U *- F1 F2	0.0994	0.006550	F1	mg/Kg		7	70 - 130
Ethylbenzene	<0.00199	U *- F1 F2	0.0994	0.008795	F1	mg/Kg		9	70 - 130
m,p-Xylenes	<0.00398	U *- F1 F2	0.199	0.02058	F1	mg/Kg		10	70 - 130
o-Xylene	<0.00199	U *- F1 F2	0.0994	0.01305	F1	mg/Kg		13	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: 880-5224-21 MSD

Matrix: Solid

Analysis Batch: 6879

Client Sample ID: C-96

Prep Type: Total/NA

Prep Batch: 6740

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U *- F1 F2	0.0996	0.08501	F2	mg/Kg		85	70 - 130	170	35
Toluene	<0.00199	U *- F1 F2	0.0996	0.07193	F2	mg/Kg		72	70 - 130	167	35
Ethylbenzene	<0.00199	U *- F1 F2	0.0996	0.08197	F2	mg/Kg		82	70 - 130	161	35
m,p-Xylenes	<0.00398	U *- F1 F2	0.199	0.1639	F2	mg/Kg		82	70 - 130	155	35
o-Xylene	<0.00199	U *- F1 F2	0.0996	0.08048	F2	mg/Kg		81	70 - 130	144	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: MB 880-6879/8

Matrix: Solid

Analysis Batch: 6879

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			08/21/21 14:05	1
Toluene	<0.00200	U	0.00200	mg/Kg			08/21/21 14:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			08/21/21 14:05	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg			08/21/21 14:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			08/21/21 14:05	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-6879/8

Matrix: Solid

Analysis Batch: 6879

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			08/21/21 14:05	1
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/21/21 14:05	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130				08/21/21 14:05	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/21/21 14:05	1

Lab Sample ID: LCS 880-6879/3

Matrix: Solid

Analysis Batch: 6879

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09284		mg/Kg		93	70 - 130
Toluene	0.100	0.09533		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09966		mg/Kg		100	70 - 130
m,p-Xylenes	0.200	0.1968		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09604		mg/Kg		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		70 - 130				
1,4-Difluorobenzene (Surr)	120		70 - 130				

Lab Sample ID: LCSD 880-6879/4

Matrix: Solid

Analysis Batch: 6879

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08925		mg/Kg		89	70 - 130	4	35
Toluene	0.100	0.08833		mg/Kg		88	70 - 130	8	35
Ethylbenzene	0.100	0.09310		mg/Kg		93	70 - 130	7	35
m,p-Xylenes	0.200	0.1847		mg/Kg		92	70 - 130	6	35
o-Xylene	0.100	0.09129		mg/Kg		91	70 - 130	5	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	90		70 - 130						
1,4-Difluorobenzene (Surr)	119		70 - 130						

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-6815/1-A

Matrix: Solid

Analysis Batch: 6843

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6815

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/20/21 22:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/20/21 22:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/20/21 22:01	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-6815/1-A

Matrix: Solid

Analysis Batch: 6843

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6815

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		08/19/21 13:59	08/20/21 22:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130	08/19/21 13:59	08/20/21 22:01	1
o-Terphenyl (Surr)	125		70 - 130	08/19/21 13:59	08/20/21 22:01	1

Lab Sample ID: LCS 880-6815/2-A

Matrix: Solid

Analysis Batch: 6843

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6815

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1060		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1052		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	123		70 - 130
o-Terphenyl (Surr)	129		70 - 130

Lab Sample ID: LCSD 880-6815/3-A

Matrix: Solid

Analysis Batch: 6843

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6815

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1075		mg/Kg		108	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1051		mg/Kg		105	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	124		70 - 130
o-Terphenyl (Surr)	127		70 - 130

Lab Sample ID: 880-5224-1 MS

Matrix: Solid

Analysis Batch: 6843

Client Sample ID: C-76

Prep Type: Total/NA

Prep Batch: 6815

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	1203		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	836.7		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-5224-1 MSD

Matrix: Solid

Analysis Batch: 6843

Client Sample ID: C-76

Prep Type: Total/NA

Prep Batch: 6815

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1173		mg/Kg		113	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	821.5		mg/Kg		80	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	94		70 - 130								
o-Terphenyl (Surr)	94		70 - 130								

Lab Sample ID: MB 880-6836/1-A

Matrix: Solid

Analysis Batch: 6839

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6836

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/20/21 08:58	08/20/21 21:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/20/21 08:58	08/20/21 21:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/20/21 08:58	08/20/21 21:57	1
Total TPH	<50.0	U	50.0	mg/Kg		08/20/21 08:58	08/20/21 21:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			08/20/21 08:58	08/20/21 21:57	1
o-Terphenyl (Surr)	116		70 - 130			08/20/21 08:58	08/20/21 21:57	1

Lab Sample ID: LCS 880-6836/2-A

Matrix: Solid

Analysis Batch: 6839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	942.0		mg/Kg		94	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1018		mg/Kg		102	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane (Surr)	96		70 - 130					
o-Terphenyl (Surr)	105		70 - 130					

Lab Sample ID: LCSD 880-6836/3-A

Matrix: Solid

Analysis Batch: 6839

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6836

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1113		mg/Kg		111	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	1151		mg/Kg		115	70 - 130	12	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-6836/3-A

Matrix: Solid

Analysis Batch: 6839

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6836

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	119		70 - 130

Lab Sample ID: 880-5224-21 MS

Matrix: Solid

Analysis Batch: 6839

Client Sample ID: C-96

Prep Type: Total/NA

Prep Batch: 6836

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	1017		mg/Kg		102	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	995	857.2		mg/Kg		86	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	79		70 - 130							
o-Terphenyl (Surr)	81		70 - 130							

Lab Sample ID: 880-5224-21 MSD

Matrix: Solid

Analysis Batch: 6839

Client Sample ID: C-96

Prep Type: Total/NA

Prep Batch: 6836

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	997.7		mg/Kg		100	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	953.2		mg/Kg		96	70 - 130	11	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	88		70 - 130									
o-Terphenyl (Surr)	91		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6790/1-A

Matrix: Solid

Analysis Batch: 6919

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			08/22/21 16:53	1		

Lab Sample ID: LCS 880-6790/2-A

Matrix: Solid

Analysis Batch: 6919

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS						%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	264.6		mg/Kg		106	90 - 110			

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-6790/3-A

Matrix: Solid

Analysis Batch: 6919

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	272.8		mg/Kg		109	90 - 110	3	20

Lab Sample ID: 880-5224-14 MS

Matrix: Solid

Analysis Batch: 6919

Client Sample ID: C-89

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<4.99	U F1	250	280.4	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-5224-14 MSD

Matrix: Solid

Analysis Batch: 6919

Client Sample ID: C-89

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<4.99	U F1	250	279.9	F1	mg/Kg		112	90 - 110	0	20

Lab Sample ID: 880-5224-24 MS

Matrix: Solid

Analysis Batch: 6919

Client Sample ID: C-99

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<5.02	U	251	266.2		mg/Kg		106	90 - 110		

Lab Sample ID: 880-5224-24 MSD

Matrix: Solid

Analysis Batch: 6919

Client Sample ID: C-99

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<5.02	U	251	254.4		mg/Kg		101	90 - 110	5	20

Lab Sample ID: MB 880-6789/1-A

Matrix: Solid

Analysis Batch: 6949

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/24/21 17:30	1

Lab Sample ID: LCS 880-6789/2-A

Matrix: Solid

Analysis Batch: 6949

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	267.9		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-6789/3-A

Matrix: Solid

Analysis Batch: 6949

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	268.4		mg/Kg		107	90 - 110	0	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-5224-1 MS

Matrix: Solid

Analysis Batch: 6949

Client Sample ID: C-76

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	44.3		250	297.8		mg/Kg		102	90 - 110

Lab Sample ID: 880-5224-1 MSD

Matrix: Solid

Analysis Batch: 6949

Client Sample ID: C-76

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	44.3		250	297.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-5224-11 MS

Matrix: Solid

Analysis Batch: 6949

Client Sample ID: C-86

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	34.4	F1	250	250.6	F1	mg/Kg		86	90 - 110

Lab Sample ID: 880-5224-11 MSD

Matrix: Solid

Analysis Batch: 6949

Client Sample ID: C-86

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	34.4	F1	250	250.6	F1	mg/Kg		86	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

GC VOA

Prep Batch: 6738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-1	C-76	Total/NA	Solid	5035	
880-5224-2	C-77	Total/NA	Solid	5035	
880-5224-3	C-78	Total/NA	Solid	5035	
880-5224-4	C-79	Total/NA	Solid	5035	
880-5224-5	C-80	Total/NA	Solid	5035	
880-5224-6	C-81	Total/NA	Solid	5035	
880-5224-7	C-82	Total/NA	Solid	5035	
880-5224-8	C-83	Total/NA	Solid	5035	
880-5224-9	C-84	Total/NA	Solid	5035	
880-5224-10	C-85	Total/NA	Solid	5035	
880-5224-11	C-86	Total/NA	Solid	5035	
880-5224-12	C-87	Total/NA	Solid	5035	
880-5224-13	C-88	Total/NA	Solid	5035	
880-5224-14	C-89	Total/NA	Solid	5035	
880-5224-15	C-90	Total/NA	Solid	5035	
880-5224-16	C-91	Total/NA	Solid	5035	
880-5224-17	C-92	Total/NA	Solid	5035	
880-5224-18	C-93	Total/NA	Solid	5035	
880-5224-19	C-94	Total/NA	Solid	5035	
880-5224-20	C-95	Total/NA	Solid	5035	
MB 880-6738/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6738/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6738/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5224-1 MS	C-76	Total/NA	Solid	5035	
880-5224-1 MSD	C-76	Total/NA	Solid	5035	

Prep Batch: 6740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-21	C-96	Total/NA	Solid	5035	
880-5224-22	C-97	Total/NA	Solid	5035	
880-5224-23	C-98	Total/NA	Solid	5035	
880-5224-24	C-99	Total/NA	Solid	5035	
880-5224-25	C-100	Total/NA	Solid	5035	
880-5224-26	C-101	Total/NA	Solid	5035	
880-5224-27	C-102	Total/NA	Solid	5035	
880-5224-28	C-103	Total/NA	Solid	5035	
880-5224-29	C-104	Total/NA	Solid	5035	
880-5224-30	C-105	Total/NA	Solid	5035	
MB 880-6740/5-A	Method Blank	Total/NA	Solid	5035	
LCSD 880-6740/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5224-21 MS	C-96	Total/NA	Solid	5035	
880-5224-21 MSD	C-96	Total/NA	Solid	5035	

Analysis Batch: 6813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-1	C-76	Total/NA	Solid	8021B	6738
880-5224-2	C-77	Total/NA	Solid	8021B	6738
880-5224-3	C-78	Total/NA	Solid	8021B	6738
880-5224-4	C-79	Total/NA	Solid	8021B	6738
880-5224-5	C-80	Total/NA	Solid	8021B	6738
880-5224-6	C-81	Total/NA	Solid	8021B	6738

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 6813 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-7	C-82	Total/NA	Solid	8021B	6738
880-5224-8	C-83	Total/NA	Solid	8021B	6738
880-5224-9	C-84	Total/NA	Solid	8021B	6738
880-5224-10	C-85	Total/NA	Solid	8021B	6738
880-5224-11	C-86	Total/NA	Solid	8021B	6738
880-5224-12	C-87	Total/NA	Solid	8021B	6738
880-5224-13	C-88	Total/NA	Solid	8021B	6738
880-5224-14	C-89	Total/NA	Solid	8021B	6738
880-5224-15	C-90	Total/NA	Solid	8021B	6738
880-5224-16	C-91	Total/NA	Solid	8021B	6738
880-5224-17	C-92	Total/NA	Solid	8021B	6738
880-5224-18	C-93	Total/NA	Solid	8021B	6738
880-5224-19	C-94	Total/NA	Solid	8021B	6738
880-5224-20	C-95	Total/NA	Solid	8021B	6738
MB 880-6738/5-A	Method Blank	Total/NA	Solid	8021B	6738
LCS 880-6738/1-A	Lab Control Sample	Total/NA	Solid	8021B	6738
LCSD 880-6738/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6738
880-5224-1 MS	C-76	Total/NA	Solid	8021B	6738
880-5224-1 MSD	C-76	Total/NA	Solid	8021B	6738

Analysis Batch: 6879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-21	C-96	Total/NA	Solid	8021B	6740
880-5224-22	C-97	Total/NA	Solid	8021B	6740
880-5224-23	C-98	Total/NA	Solid	8021B	6740
880-5224-24	C-99	Total/NA	Solid	8021B	6740
880-5224-25	C-100	Total/NA	Solid	8021B	6740
880-5224-26	C-101	Total/NA	Solid	8021B	6740
880-5224-27	C-102	Total/NA	Solid	8021B	6740
880-5224-28	C-103	Total/NA	Solid	8021B	6740
880-5224-29	C-104	Total/NA	Solid	8021B	6740
880-5224-30	C-105	Total/NA	Solid	8021B	6740
MB 880-6740/5-A	Method Blank	Total/NA	Solid	8021B	6740
MB 880-6879/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-6879/3	Lab Control Sample	Total/NA	Solid	8021B	
LCSD 880-6740/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6740
LCSD 880-6879/4	Lab Control Sample Dup	Total/NA	Solid	8021B	
880-5224-21 MS	C-96	Total/NA	Solid	8021B	6740
880-5224-21 MSD	C-96	Total/NA	Solid	8021B	6740

GC Semi VOA

Prep Batch: 6815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-1	C-76	Total/NA	Solid	8015NM Prep	
880-5224-2	C-77	Total/NA	Solid	8015NM Prep	
880-5224-3	C-78	Total/NA	Solid	8015NM Prep	
880-5224-4	C-79	Total/NA	Solid	8015NM Prep	
880-5224-5	C-80	Total/NA	Solid	8015NM Prep	
880-5224-6	C-81	Total/NA	Solid	8015NM Prep	
880-5224-7	C-82	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 6815 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-8	C-83	Total/NA	Solid	8015NM Prep	
880-5224-9	C-84	Total/NA	Solid	8015NM Prep	
880-5224-10	C-85	Total/NA	Solid	8015NM Prep	
880-5224-11	C-86	Total/NA	Solid	8015NM Prep	
880-5224-12	C-87	Total/NA	Solid	8015NM Prep	
880-5224-13	C-88	Total/NA	Solid	8015NM Prep	
880-5224-14	C-89	Total/NA	Solid	8015NM Prep	
880-5224-15	C-90	Total/NA	Solid	8015NM Prep	
880-5224-16	C-91	Total/NA	Solid	8015NM Prep	
880-5224-17	C-92	Total/NA	Solid	8015NM Prep	
880-5224-18	C-93	Total/NA	Solid	8015NM Prep	
880-5224-19	C-94	Total/NA	Solid	8015NM Prep	
880-5224-20	C-95	Total/NA	Solid	8015NM Prep	
MB 880-6815/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6815/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6815/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5224-1 MS	C-76	Total/NA	Solid	8015NM Prep	
880-5224-1 MSD	C-76	Total/NA	Solid	8015NM Prep	

Prep Batch: 6836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-21	C-96	Total/NA	Solid	8015NM Prep	
880-5224-22	C-97	Total/NA	Solid	8015NM Prep	
880-5224-23	C-98	Total/NA	Solid	8015NM Prep	
880-5224-24	C-99	Total/NA	Solid	8015NM Prep	
880-5224-25	C-100	Total/NA	Solid	8015NM Prep	
880-5224-26	C-101	Total/NA	Solid	8015NM Prep	
880-5224-27	C-102	Total/NA	Solid	8015NM Prep	
880-5224-28	C-103	Total/NA	Solid	8015NM Prep	
880-5224-29	C-104	Total/NA	Solid	8015NM Prep	
880-5224-30	C-105	Total/NA	Solid	8015NM Prep	
MB 880-6836/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6836/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6836/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5224-21 MS	C-96	Total/NA	Solid	8015NM Prep	
880-5224-21 MSD	C-96	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-21	C-96	Total/NA	Solid	8015B NM	6836
880-5224-22	C-97	Total/NA	Solid	8015B NM	6836
880-5224-23	C-98	Total/NA	Solid	8015B NM	6836
880-5224-24	C-99	Total/NA	Solid	8015B NM	6836
880-5224-25	C-100	Total/NA	Solid	8015B NM	6836
880-5224-26	C-101	Total/NA	Solid	8015B NM	6836
880-5224-27	C-102	Total/NA	Solid	8015B NM	6836
880-5224-28	C-103	Total/NA	Solid	8015B NM	6836
880-5224-29	C-104	Total/NA	Solid	8015B NM	6836
880-5224-30	C-105	Total/NA	Solid	8015B NM	6836
MB 880-6836/1-A	Method Blank	Total/NA	Solid	8015B NM	6836
LCS 880-6836/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6836

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 6839 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-6836/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6836
880-5224-21 MS	C-96	Total/NA	Solid	8015B NM	6836
880-5224-21 MSD	C-96	Total/NA	Solid	8015B NM	6836

Analysis Batch: 6843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-1	C-76	Total/NA	Solid	8015B NM	6815
880-5224-2	C-77	Total/NA	Solid	8015B NM	6815
880-5224-3	C-78	Total/NA	Solid	8015B NM	6815
880-5224-4	C-79	Total/NA	Solid	8015B NM	6815
880-5224-5	C-80	Total/NA	Solid	8015B NM	6815
880-5224-6	C-81	Total/NA	Solid	8015B NM	6815
880-5224-7	C-82	Total/NA	Solid	8015B NM	6815
880-5224-8	C-83	Total/NA	Solid	8015B NM	6815
880-5224-9	C-84	Total/NA	Solid	8015B NM	6815
880-5224-10	C-85	Total/NA	Solid	8015B NM	6815
880-5224-11	C-86	Total/NA	Solid	8015B NM	6815
880-5224-12	C-87	Total/NA	Solid	8015B NM	6815
880-5224-13	C-88	Total/NA	Solid	8015B NM	6815
880-5224-14	C-89	Total/NA	Solid	8015B NM	6815
880-5224-15	C-90	Total/NA	Solid	8015B NM	6815
880-5224-16	C-91	Total/NA	Solid	8015B NM	6815
880-5224-17	C-92	Total/NA	Solid	8015B NM	6815
880-5224-18	C-93	Total/NA	Solid	8015B NM	6815
880-5224-19	C-94	Total/NA	Solid	8015B NM	6815
880-5224-20	C-95	Total/NA	Solid	8015B NM	6815
MB 880-6815/1-A	Method Blank	Total/NA	Solid	8015B NM	6815
LCS 880-6815/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6815
LCSD 880-6815/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6815
880-5224-1 MS	C-76	Total/NA	Solid	8015B NM	6815
880-5224-1 MSD	C-76	Total/NA	Solid	8015B NM	6815

HPLC/IC

Leach Batch: 6789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-1	C-76	Soluble	Solid	DI Leach	
880-5224-2	C-77	Soluble	Solid	DI Leach	
880-5224-3	C-78	Soluble	Solid	DI Leach	
880-5224-4	C-79	Soluble	Solid	DI Leach	
880-5224-5	C-80	Soluble	Solid	DI Leach	
880-5224-6	C-81	Soluble	Solid	DI Leach	
880-5224-7	C-82	Soluble	Solid	DI Leach	
880-5224-8	C-83	Soluble	Solid	DI Leach	
880-5224-9	C-84	Soluble	Solid	DI Leach	
880-5224-10	C-85	Soluble	Solid	DI Leach	
880-5224-11	C-86	Soluble	Solid	DI Leach	
880-5224-12	C-87	Soluble	Solid	DI Leach	
880-5224-13	C-88	Soluble	Solid	DI Leach	
MB 880-6789/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6789/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 6789 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-6789/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5224-1 MS	C-76	Soluble	Solid	DI Leach	
880-5224-1 MSD	C-76	Soluble	Solid	DI Leach	
880-5224-11 MS	C-86	Soluble	Solid	DI Leach	
880-5224-11 MSD	C-86	Soluble	Solid	DI Leach	

Leach Batch: 6790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-14	C-89	Soluble	Solid	DI Leach	
880-5224-15	C-90	Soluble	Solid	DI Leach	
880-5224-16	C-91	Soluble	Solid	DI Leach	
880-5224-17	C-92	Soluble	Solid	DI Leach	
880-5224-18	C-93	Soluble	Solid	DI Leach	
880-5224-19	C-94	Soluble	Solid	DI Leach	
880-5224-20	C-95	Soluble	Solid	DI Leach	
880-5224-21	C-96	Soluble	Solid	DI Leach	
880-5224-22	C-97	Soluble	Solid	DI Leach	
880-5224-23	C-98	Soluble	Solid	DI Leach	
880-5224-24	C-99	Soluble	Solid	DI Leach	
880-5224-25	C-100	Soluble	Solid	DI Leach	
880-5224-26	C-101	Soluble	Solid	DI Leach	
880-5224-27	C-102	Soluble	Solid	DI Leach	
880-5224-28	C-103	Soluble	Solid	DI Leach	
880-5224-29	C-104	Soluble	Solid	DI Leach	
880-5224-30	C-105	Soluble	Solid	DI Leach	
MB 880-6790/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6790/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6790/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5224-14 MS	C-89	Soluble	Solid	DI Leach	
880-5224-14 MSD	C-89	Soluble	Solid	DI Leach	
880-5224-24 MS	C-99	Soluble	Solid	DI Leach	
880-5224-24 MSD	C-99	Soluble	Solid	DI Leach	

Analysis Batch: 6919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-14	C-89	Soluble	Solid	300.0	6790
880-5224-15	C-90	Soluble	Solid	300.0	6790
880-5224-16	C-91	Soluble	Solid	300.0	6790
880-5224-17	C-92	Soluble	Solid	300.0	6790
880-5224-18	C-93	Soluble	Solid	300.0	6790
880-5224-19	C-94	Soluble	Solid	300.0	6790
880-5224-20	C-95	Soluble	Solid	300.0	6790
880-5224-21	C-96	Soluble	Solid	300.0	6790
880-5224-22	C-97	Soluble	Solid	300.0	6790
880-5224-23	C-98	Soluble	Solid	300.0	6790
880-5224-24	C-99	Soluble	Solid	300.0	6790
880-5224-25	C-100	Soluble	Solid	300.0	6790
880-5224-26	C-101	Soluble	Solid	300.0	6790
880-5224-27	C-102	Soluble	Solid	300.0	6790
880-5224-28	C-103	Soluble	Solid	300.0	6790
880-5224-29	C-104	Soluble	Solid	300.0	6790

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 6919 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-30	C-105	Soluble	Solid	300.0	6790
MB 880-6790/1-A	Method Blank	Soluble	Solid	300.0	6790
LCS 880-6790/2-A	Lab Control Sample	Soluble	Solid	300.0	6790
LCSD 880-6790/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6790
880-5224-14 MS	C-89	Soluble	Solid	300.0	6790
880-5224-14 MSD	C-89	Soluble	Solid	300.0	6790
880-5224-24 MS	C-99	Soluble	Solid	300.0	6790
880-5224-24 MSD	C-99	Soluble	Solid	300.0	6790

Analysis Batch: 6949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5224-1	C-76	Soluble	Solid	300.0	6789
880-5224-2	C-77	Soluble	Solid	300.0	6789
880-5224-3	C-78	Soluble	Solid	300.0	6789
880-5224-4	C-79	Soluble	Solid	300.0	6789
880-5224-5	C-80	Soluble	Solid	300.0	6789
880-5224-6	C-81	Soluble	Solid	300.0	6789
880-5224-7	C-82	Soluble	Solid	300.0	6789
880-5224-8	C-83	Soluble	Solid	300.0	6789
880-5224-9	C-84	Soluble	Solid	300.0	6789
880-5224-10	C-85	Soluble	Solid	300.0	6789
880-5224-11	C-86	Soluble	Solid	300.0	6789
880-5224-12	C-87	Soluble	Solid	300.0	6789
880-5224-13	C-88	Soluble	Solid	300.0	6789
MB 880-6789/1-A	Method Blank	Soluble	Solid	300.0	6789
LCS 880-6789/2-A	Lab Control Sample	Soluble	Solid	300.0	6789
LCSD 880-6789/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6789
880-5224-1 MS	C-76	Soluble	Solid	300.0	6789
880-5224-1 MSD	C-76	Soluble	Solid	300.0	6789
880-5224-11 MS	C-86	Soluble	Solid	300.0	6789
880-5224-11 MSD	C-86	Soluble	Solid	300.0	6789

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-76

Lab Sample ID: 880-5224-1

Date Collected: 08/16/21 14:00

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 18:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/20/21 23:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 17:47	CH	XEN MID

Client Sample ID: C-77

Lab Sample ID: 880-5224-2

Date Collected: 08/16/21 14:01

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 18:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 00:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 18:04	CH	XEN MID

Client Sample ID: C-78

Lab Sample ID: 880-5224-3

Date Collected: 08/16/21 14:02

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 18:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 00:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 18:10	CH	XEN MID

Client Sample ID: C-79

Lab Sample ID: 880-5224-4

Date Collected: 08/16/21 14:03

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 19:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 00:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 18:15	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-80

Lab Sample ID: 880-5224-5

Date Collected: 08/16/21 14:04

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 19:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 01:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 18:21	CH	XEN MID

Client Sample ID: C-81

Lab Sample ID: 880-5224-6

Date Collected: 08/16/21 14:05

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 19:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 01:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 18:38	CH	XEN MID

Client Sample ID: C-82

Lab Sample ID: 880-5224-7

Date Collected: 08/16/21 14:06

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 20:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 01:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 18:43	CH	XEN MID

Client Sample ID: C-83

Lab Sample ID: 880-5224-8

Date Collected: 08/16/21 14:07

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 20:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 02:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 18:49	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-84

Lab Sample ID: 880-5224-9

Date Collected: 08/16/21 14:08

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 21:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 02:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 18:55	CH	XEN MID

Client Sample ID: C-85

Lab Sample ID: 880-5224-10

Date Collected: 08/16/21 14:09

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 21:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 02:57	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 19:00	CH	XEN MID

Client Sample ID: C-86

Lab Sample ID: 880-5224-11

Date Collected: 08/16/21 14:10

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 22:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 03:40	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 19:06	CH	XEN MID

Client Sample ID: C-87

Lab Sample ID: 880-5224-12

Date Collected: 08/16/21 14:11

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 23:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 04:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 19:23	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-88

Lab Sample ID: 880-5224-13

Date Collected: 08/16/21 14:12

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 23:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 04:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6789	08/19/21 11:21	CH	XEN MID
Soluble	Analysis	300.0		1			6949	08/24/21 19:28	CH	XEN MID

Client Sample ID: C-89

Lab Sample ID: 880-5224-14

Date Collected: 08/16/21 14:13

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/19/21 23:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 04:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 17:10	CH	XEN MID

Client Sample ID: C-90

Lab Sample ID: 880-5224-15

Date Collected: 08/16/21 14:14

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/20/21 00:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 05:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 17:27	CH	XEN MID

Client Sample ID: C-91

Lab Sample ID: 880-5224-16

Date Collected: 08/16/21 14:15

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/20/21 00:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 05:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 17:33	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-92

Lab Sample ID: 880-5224-17

Date Collected: 08/16/21 14:16

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/20/21 00:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 05:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 17:39	CH	XEN MID

Client Sample ID: C-93

Lab Sample ID: 880-5224-18

Date Collected: 08/16/21 14:17

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/20/21 01:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 06:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 17:44	CH	XEN MID

Client Sample ID: C-94

Lab Sample ID: 880-5224-19

Date Collected: 08/16/21 14:18

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/20/21 01:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 06:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 18:01	CH	XEN MID

Client Sample ID: C-95

Lab Sample ID: 880-5224-20

Date Collected: 08/16/21 14:19

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6738	08/18/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6813	08/20/21 01:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6815	08/19/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/21/21 06:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 18:07	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-96

Lab Sample ID: 880-5224-21

Date Collected: 08/16/21 14:20

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6740	08/18/21 14:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6879	08/22/21 00:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6836	08/20/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6839	08/20/21 23:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 18:13	CH	XEN MID

Client Sample ID: C-97

Lab Sample ID: 880-5224-22

Date Collected: 08/16/21 14:21

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6740	08/18/21 14:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6879	08/22/21 00:35	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6836	08/20/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6839	08/21/21 00:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 18:18	CH	XEN MID

Client Sample ID: C-98

Lab Sample ID: 880-5224-23

Date Collected: 08/16/21 14:22

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6740	08/18/21 14:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6879	08/22/21 01:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6836	08/20/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6839	08/21/21 00:26	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 18:24	CH	XEN MID

Client Sample ID: C-99

Lab Sample ID: 880-5224-24

Date Collected: 08/16/21 14:23

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6740	08/18/21 14:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6879	08/22/21 01:26	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6836	08/20/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6839	08/21/21 00:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 18:30	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-100

Lab Sample ID: 880-5224-25

Date Collected: 08/16/21 14:24

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6740	08/18/21 14:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6879	08/22/21 01:52	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6836	08/20/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6839	08/21/21 01:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 18:47	CH	XEN MID

Client Sample ID: C-101

Lab Sample ID: 880-5224-26

Date Collected: 08/16/21 14:25

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6740	08/18/21 14:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6879	08/22/21 02:18	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6836	08/20/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6839	08/21/21 01:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6790	08/19/21 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 18:52	CH	XEN MID

Client Sample ID: C-102

Lab Sample ID: 880-5224-27

Date Collected: 08/16/21 14:26

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6740	08/18/21 14:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6879	08/22/21 02:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6836	08/20/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6839	08/21/21 01:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6790	08/19/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 19:09	CH	XEN MID

Client Sample ID: C-103

Lab Sample ID: 880-5224-28

Date Collected: 08/16/21 14:27

Matrix: Solid

Date Received: 08/18/21 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6740	08/18/21 14:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6879	08/22/21 03:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6836	08/20/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6839	08/21/21 02:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6790	08/19/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 19:15	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Client Sample ID: C-104**Lab Sample ID: 880-5224-29****Date Collected: 08/16/21 14:28****Matrix: Solid****Date Received: 08/18/21 11:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6740	08/18/21 14:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6879	08/22/21 03:34	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6836	08/20/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6839	08/21/21 02:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6790	08/19/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 19:21	CH	XEN MID

Client Sample ID: C-105**Lab Sample ID: 880-5224-30****Date Collected: 08/16/21 14:29****Matrix: Solid****Date Received: 08/18/21 11:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	6740	08/18/21 14:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6879	08/22/21 04:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6836	08/20/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6839	08/21/21 02:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6790	08/19/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1			6919	08/22/21 19:26	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Palmio AST

Job ID: 880-5224-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5224-1	C-76	Solid	08/16/21 14:00	08/18/21 11:12
880-5224-2	C-77	Solid	08/16/21 14:01	08/18/21 11:12
880-5224-3	C-78	Solid	08/16/21 14:02	08/18/21 11:12
880-5224-4	C-79	Solid	08/16/21 14:03	08/18/21 11:12
880-5224-5	C-80	Solid	08/16/21 14:04	08/18/21 11:12
880-5224-6	C-81	Solid	08/16/21 14:05	08/18/21 11:12
880-5224-7	C-82	Solid	08/16/21 14:06	08/18/21 11:12
880-5224-8	C-83	Solid	08/16/21 14:07	08/18/21 11:12
880-5224-9	C-84	Solid	08/16/21 14:08	08/18/21 11:12
880-5224-10	C-85	Solid	08/16/21 14:09	08/18/21 11:12
880-5224-11	C-86	Solid	08/16/21 14:10	08/18/21 11:12
880-5224-12	C-87	Solid	08/16/21 14:11	08/18/21 11:12
880-5224-13	C-88	Solid	08/16/21 14:12	08/18/21 11:12
880-5224-14	C-89	Solid	08/16/21 14:13	08/18/21 11:12
880-5224-15	C-90	Solid	08/16/21 14:14	08/18/21 11:12
880-5224-16	C-91	Solid	08/16/21 14:15	08/18/21 11:12
880-5224-17	C-92	Solid	08/16/21 14:16	08/18/21 11:12
880-5224-18	C-93	Solid	08/16/21 14:17	08/18/21 11:12
880-5224-19	C-94	Solid	08/16/21 14:18	08/18/21 11:12
880-5224-20	C-95	Solid	08/16/21 14:19	08/18/21 11:12
880-5224-21	C-96	Solid	08/16/21 14:20	08/18/21 11:12
880-5224-22	C-97	Solid	08/16/21 14:21	08/18/21 11:12
880-5224-23	C-98	Solid	08/16/21 14:22	08/18/21 11:12
880-5224-24	C-99	Solid	08/16/21 14:23	08/18/21 11:12
880-5224-25	C-100	Solid	08/16/21 14:24	08/18/21 11:12
880-5224-26	C-101	Solid	08/16/21 14:25	08/18/21 11:12
880-5224-27	C-102	Solid	08/16/21 14:26	08/18/21 11:12
880-5224-28	C-103	Solid	08/16/21 14:27	08/18/21 11:12
880-5224-29	C-104	Solid	08/16/21 14:28	08/18/21 11:12
880-5224-30	C-105	Solid	08/16/21 14:29	08/18/21 11:12

[illegible]

Marson & Associates, Inc.
Environmental Consultants

507 N. Marientfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 6/15/2021 PO#: LAB WORK ORDER#: PAGE 2 OF 2
PROJECT LOCATION OR NAME: Select Energy - Palmiro AST
LAI PROJECT #: 21-0105-02 COLLECTOR: DSG

Loc: 880
5224

No 1787

AIN-OF-CUSTODY

TIME ZONE Time zone/State	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES				
									HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			UNPRESERVED			
C-91					6/18/21	1415	S	1					X	X	X	X		
C-92						1416												
C-93						1417												
C-94						1418												
C-95						1419												
C-96						1420												
C-97						1421												
C-98						1422												
C-99						1423												
C-100						1424												
C-101						1425												
C-102						1426												
C-103						1427												
C-104						1428												
C-105						1429												
TOTAL								15										

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP

THERM#

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP

THERM#

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP

THERM#

LABORATORY Xenco

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP

THERM#

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-5224-1

SDG Number: 21-0105-02

Login Number: 5224

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-5310-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
8/25/2021 4:02:50 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-5310-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Job ID: 880-5310-1**Laboratory: Eurofins Xenco, Midland****Narrative****Job Narrative
880-5310-1****Receipt**

The samples were received on 8/23/2021 9:16 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.9°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6935 and analytical batch 880-6938 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-6935/1-A) and (LCSD 880-6935/2-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Client Sample ID: C-106

Lab Sample ID: 880-5310-1

Date Collected: 08/20/21 11:30

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 14:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 14:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 14:56	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 14:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 14:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 14:56	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	08/23/21 10:21	08/23/21 14:56	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/23/21 10:21	08/23/21 14:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/23/21 14:13	08/23/21 22:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/23/21 14:13	08/23/21 22:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/23/21 14:13	08/23/21 22:40	1
Total TPH	<50.0	U	50.0	mg/Kg		08/23/21 14:13	08/23/21 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	08/23/21 14:13	08/23/21 22:40	1
o-Terphenyl (Surr)	107		70 - 130	08/23/21 14:13	08/23/21 22:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.5		4.98	mg/Kg			08/24/21 17:08	1

Client Sample ID: C-107

Lab Sample ID: 880-5310-2

Date Collected: 08/20/21 11:31

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 15:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 15:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 15:16	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 15:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 15:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 15:16	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/23/21 10:21	08/23/21 15:16	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/23/21 10:21	08/23/21 15:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/23/21 14:13	08/23/21 23:43	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Client Sample ID: C-107

Lab Sample ID: 880-5310-2

Date Collected: 08/20/21 11:31

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/23/21 14:13	08/23/21 23:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/23/21 14:13	08/23/21 23:43	1
Total TPH	<49.9	U	49.9	mg/Kg		08/23/21 14:13	08/23/21 23:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			08/23/21 14:13	08/23/21 23:43	1
o-Terphenyl (Surr)	110		70 - 130			08/23/21 14:13	08/23/21 23:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			08/25/21 08:16	1

Client Sample ID: C-108

Lab Sample ID: 880-5310-3

Date Collected: 08/20/21 11:32

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 15:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 15:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 15:36	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/23/21 10:21	08/23/21 15:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 15:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/23/21 10:21	08/23/21 15:36	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/23/21 10:21	08/23/21 15:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			08/23/21 10:21	08/23/21 15:36	1
1,4-Difluorobenzene (Surr)	101		70 - 130			08/23/21 10:21	08/23/21 15:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/23/21 14:13	08/24/21 00:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/23/21 14:13	08/24/21 00:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/23/21 14:13	08/24/21 00:04	1
Total TPH	<49.8	U	49.8	mg/Kg		08/23/21 14:13	08/24/21 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			08/23/21 14:13	08/24/21 00:04	1
o-Terphenyl (Surr)	109		70 - 130			08/23/21 14:13	08/24/21 00:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.3		4.97	mg/Kg			08/25/21 08:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Client Sample ID: C-109

Lab Sample ID: 880-5310-4

Date Collected: 08/20/21 11:33

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 15:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 15:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 15:57	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 15:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 15:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 15:57	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/23/21 10:21	08/23/21 15:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/23/21 10:21	08/23/21 15:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/23/21 14:13	08/24/21 00:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/23/21 14:13	08/24/21 00:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/23/21 14:13	08/24/21 00:25	1
Total TPH	<49.9	U	49.9	mg/Kg		08/23/21 14:13	08/24/21 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	08/23/21 14:13	08/24/21 00:25	1
o-Terphenyl (Surr)	109		70 - 130	08/23/21 14:13	08/24/21 00:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			08/25/21 08:26	1

Client Sample ID: C-110

Lab Sample ID: 880-5310-5

Date Collected: 08/20/21 11:34

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 16:17	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 16:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 16:17	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 16:17	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 16:17	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 16:17	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	08/23/21 10:21	08/23/21 16:17	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/23/21 10:21	08/23/21 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/23/21 14:13	08/24/21 00:46	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Client Sample ID: C-110

Lab Sample ID: 880-5310-5

Date Collected: 08/20/21 11:34

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/23/21 14:13	08/24/21 00:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/23/21 14:13	08/24/21 00:46	1
Total TPH	<49.8	U	49.8	mg/Kg		08/23/21 14:13	08/24/21 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			08/23/21 14:13	08/24/21 00:46	1
o-Terphenyl (Surr)	103		70 - 130			08/23/21 14:13	08/24/21 00:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/25/21 10:39	1

Client Sample ID: C-111

Lab Sample ID: 880-5310-6

Date Collected: 08/20/21 11:35

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 16:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 16:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 16:38	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		08/23/21 10:21	08/23/21 16:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 16:38	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/23/21 10:21	08/23/21 16:38	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/23/21 10:21	08/23/21 16:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			08/23/21 10:21	08/23/21 16:38	1
1,4-Difluorobenzene (Surr)	96		70 - 130			08/23/21 10:21	08/23/21 16:38	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/23/21 14:13	08/24/21 01:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/23/21 14:13	08/24/21 01:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/23/21 14:13	08/24/21 01:06	1
Total TPH	<49.9	U	49.9	mg/Kg		08/23/21 14:13	08/24/21 01:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			08/23/21 14:13	08/24/21 01:06	1
o-Terphenyl (Surr)	109		70 - 130			08/23/21 14:13	08/24/21 01:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01	mg/Kg			08/25/21 08:42	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Client Sample ID: C-112

Lab Sample ID: 880-5310-7

Date Collected: 08/20/21 11:36

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 16:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 16:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 16:58	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 16:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/23/21 10:21	08/23/21 16:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 16:58	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/23/21 10:21	08/23/21 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/23/21 10:21	08/23/21 16:58	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/23/21 10:21	08/23/21 16:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/23/21 14:13	08/24/21 01:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/23/21 14:13	08/24/21 01:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/23/21 14:13	08/24/21 01:27	1
Total TPH	<49.8	U	49.8	mg/Kg		08/23/21 14:13	08/24/21 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	08/23/21 14:13	08/24/21 01:27	1
o-Terphenyl (Surr)	118		70 - 130	08/23/21 14:13	08/24/21 01:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.27		4.98	mg/Kg			08/25/21 08:47	1

Client Sample ID: C-113

Lab Sample ID: 880-5310-8

Date Collected: 08/20/21 11:37

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 17:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 17:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 17:18	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/23/21 10:21	08/23/21 17:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 17:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/23/21 10:21	08/23/21 17:18	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/23/21 10:21	08/23/21 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/23/21 10:21	08/23/21 17:18	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/23/21 10:21	08/23/21 17:18	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 20:03	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Client Sample ID: C-113

Lab Sample ID: 880-5310-8

Date Collected: 08/20/21 11:37

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 20:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 20:03	1
Total TPH	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 20:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			08/23/21 10:36	08/23/21 20:03	1
o-Terphenyl (Surr)	105		70 - 130			08/23/21 10:36	08/23/21 20:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00		4.95	mg/Kg			08/25/21 08:53	1

Client Sample ID: C-114

Lab Sample ID: 880-5310-9

Date Collected: 08/20/21 11:38

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 18:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 18:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 18:40	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		08/23/21 10:21	08/23/21 18:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 18:40	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/23/21 10:21	08/23/21 18:40	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/23/21 10:21	08/23/21 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			08/23/21 10:21	08/23/21 18:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130			08/23/21 10:21	08/23/21 18:40	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/23/21 10:36	08/23/21 20:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/23/21 10:36	08/23/21 20:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/23/21 10:36	08/23/21 20:24	1
Total TPH	<49.8	U	49.8	mg/Kg		08/23/21 10:36	08/23/21 20:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			08/23/21 10:36	08/23/21 20:24	1
o-Terphenyl (Surr)	104		70 - 130			08/23/21 10:36	08/23/21 20:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/24/21 12:57	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Client Sample ID: C-115

Lab Sample ID: 880-5310-10

Date Collected: 08/20/21 11:39

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 19:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 19:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 19:01	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/23/21 10:21	08/23/21 19:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 19:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/23/21 10:21	08/23/21 19:01	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/23/21 10:21	08/23/21 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	08/23/21 10:21	08/23/21 19:01	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/23/21 10:21	08/23/21 19:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 20:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 20:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 20:44	1
Total TPH	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	08/23/21 10:36	08/23/21 20:44	1
o-Terphenyl (Surr)	103		70 - 130	08/23/21 10:36	08/23/21 20:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/24/21 13:02	1

Client Sample ID: C-116

Lab Sample ID: 880-5310-11

Date Collected: 08/20/21 11:40

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 19:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 19:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 19:21	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/23/21 10:21	08/23/21 19:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 19:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/23/21 10:21	08/23/21 19:21	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/23/21 10:21	08/23/21 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/23/21 10:21	08/23/21 19:21	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/23/21 10:21	08/23/21 19:21	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 21:04	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Client Sample ID: C-116

Lab Sample ID: 880-5310-11

Date Collected: 08/20/21 11:40

Matrix: Solid

Date Received: 08/23/21 09:16

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 21:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 21:04	1
Total TPH	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	08/23/21 10:36	08/23/21 21:04	1
o-Terphenyl (Surr)	103		70 - 130	08/23/21 10:36	08/23/21 21:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			08/24/21 13:18	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-5304-A-6-D MS	Matrix Spike	112	102
880-5304-A-6-E MSD	Matrix Spike Duplicate	122	100
880-5310-1	C-106	127	107
880-5310-2	C-107	118	103
880-5310-3	C-108	127	101
880-5310-4	C-109	118	102
880-5310-5	C-110	126	101
880-5310-6	C-111	120	96
880-5310-7	C-112	128	95
880-5310-8	C-113	124	99
880-5310-9	C-114	87	95
880-5310-10	C-115	126	98
880-5310-11	C-116	123	95
LCS 880-6935/1-A	Lab Control Sample	144 S1+	132 S1+
LCSD 880-6935/2-A	Lab Control Sample Dup	158 S1+	137 S1+
MB 880-6935/5-A	Method Blank	96	100
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-5310-1	C-106	95	107
880-5310-1 MS	C-106	90	96
880-5310-1 MSD	C-106	93	97
880-5310-2	C-107	96	110
880-5310-3	C-108	95	109
880-5310-4	C-109	96	109
880-5310-5	C-110	91	103
880-5310-6	C-111	96	109
880-5310-7	C-112	103	118
880-5310-8	C-113	99	105
880-5310-9	C-114	95	104
880-5310-10	C-115	96	103
880-5310-11	C-116	95	103
890-1140-A-1-E MS	Matrix Spike	102	97
890-1140-A-1-F MSD	Matrix Spike Duplicate	93	87
LCS 880-6941/2-A	Lab Control Sample	90	85
LCS 880-6957/2-A	Lab Control Sample	88	96
LCSD 880-6941/3-A	Lab Control Sample Dup	91	86
LCSD 880-6957/3-A	Lab Control Sample Dup	88	95
MB 880-6941/1-A	Method Blank	94	104
MB 880-6957/1-A	Method Blank	92	107
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST
OTPH = o-Terphenyl (Surr)

Job ID: 880-5310-1
SDG: 21-0105-02

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6935/5-A

Matrix: Solid

Analysis Batch: 6938

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6935

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 13:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 13:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 13:53	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/23/21 10:21	08/23/21 13:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/23/21 10:21	08/23/21 13:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/23/21 10:21	08/23/21 13:53	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/23/21 10:21	08/23/21 13:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/23/21 10:21	08/23/21 13:53	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/23/21 10:21	08/23/21 13:53	1

Lab Sample ID: LCS 880-6935/1-A

Matrix: Solid

Analysis Batch: 6938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08119		mg/Kg		81	70 - 130
Toluene	0.100	0.08579		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.09429		mg/Kg		94	70 - 130
m,p-Xylenes	0.200	0.1924		mg/Kg		96	70 - 130
o-Xylene	0.100	0.1006		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130

Lab Sample ID: LCSD 880-6935/2-A

Matrix: Solid

Analysis Batch: 6938

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6935

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08631		mg/Kg		86	70 - 130	6	35
Toluene	0.100	0.09346		mg/Kg		93	70 - 130	9	35
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	8	35
m,p-Xylenes	0.200	0.2111		mg/Kg		106	70 - 130	9	35
o-Xylene	0.100	0.1110		mg/Kg		111	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130
1,4-Difluorobenzene (Surr)	137	S1+	70 - 130

Lab Sample ID: 880-5304-A-6-D MS

Matrix: Solid

Analysis Batch: 6938

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.0998	0.04895	F1	mg/Kg		49	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5304-A-6-D MS

Matrix: Solid

Analysis Batch: 6938

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00200	U F1	0.0998	0.04755	F1	mg/Kg		48	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.04460	F1	mg/Kg		45	70 - 130
m,p-Xylenes	<0.00400	U F1	0.200	0.08974	F1	mg/Kg		45	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.04723	F1	mg/Kg		47	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	112		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: 880-5304-A-6-E MSD

Matrix: Solid

Analysis Batch: 6938

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6935

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0996	0.04798	F1	mg/Kg		48	70 - 130	2	35
Toluene	<0.00200	U F1	0.0996	0.04892	F1	mg/Kg		49	70 - 130	3	35
Ethylbenzene	<0.00200	U F1	0.0996	0.04713	F1	mg/Kg		47	70 - 130	5	35
m,p-Xylenes	<0.00400	U F1	0.199	0.09572	F1	mg/Kg		48	70 - 130	6	35
o-Xylene	<0.00200	U F1	0.0996	0.04987	F1	mg/Kg		50	70 - 130	5	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	122		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-6941/1-A

Matrix: Solid

Analysis Batch: 6936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6941

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 12:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 12:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 12:28	1
Total TPH	<50.0	U	50.0	mg/Kg		08/23/21 10:36	08/23/21 12:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			08/23/21 10:36	08/23/21 12:28	1
o-Terphenyl (Surr)	104		70 - 130			08/23/21 10:36	08/23/21 12:28	1

Lab Sample ID: LCS 880-6941/2-A

Matrix: Solid

Analysis Batch: 6936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6941

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	903.2		mg/Kg		90	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-6941/2-A

Matrix: Solid

Analysis Batch: 6936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6941

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier				Limits		
Diesel Range Organics (Over C10-C28)			1000	724.1		mg/Kg		72	70 - 130		
Surrogate	LCS		Limits	LCS							
	%Recovery	Qualifier									
	1-Chlorooctane (Surr)	90		70 - 130							
	o-Terphenyl (Surr)	85		70 - 130							

Lab Sample ID: LCSD 880-6941/3-A

Matrix: Solid

Analysis Batch: 6936

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6941

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	876.8		mg/Kg		88	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	733.1		mg/Kg		73	70 - 130	1	20
Surrogate	LCSD		Limits								
	%Recovery	Qualifier									
1-Chlorooctane (Surr)	91		70 - 130								
o-Terphenyl (Surr)	86		70 - 130								

Lab Sample ID: 890-1140-A-1-E MS

Matrix: Solid

Analysis Batch: 6936

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6941

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	1115		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	891.4		mg/Kg		90	70 - 130		
					</						

Lab Sample ID: 890-1140-A-1-F MSD

Matrix: Solid

Analysis Batch: 6936

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6941

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1115		mg/Kg		110	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	830.6		mg/Kg		83	70 - 130	7	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-6957/1-A

Matrix: Solid

Analysis Batch: 6923

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6957

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/23/21 14:13	08/23/21 21:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/23/21 14:13	08/23/21 21:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/23/21 14:13	08/23/21 21:37	1
Total TPH	<50.0	U	50.0	mg/Kg		08/23/21 14:13	08/23/21 21:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	08/23/21 14:13	08/23/21 21:37	1
o-Terphenyl (Surr)	107		70 - 130	08/23/21 14:13	08/23/21 21:37	1

Lab Sample ID: LCS 880-6957/2-A

Matrix: Solid

Analysis Batch: 6923

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	762.2		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	1000	888.4		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-6957/3-A

Matrix: Solid

Analysis Batch: 6923

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	782.8		mg/Kg		78	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	893.7		mg/Kg		89	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	95		70 - 130

Lab Sample ID: 880-5310-1 MS

Matrix: Solid

Analysis Batch: 6923

Client Sample ID: C-106

Prep Type: Total/NA

Prep Batch: 6957

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	891.8		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	1033		mg/Kg		104	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-5310-1 MS

Matrix: Solid

Analysis Batch: 6923

Client Sample ID: C-106

Prep Type: Total/NA

Prep Batch: 6957

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	96		70 - 130

Lab Sample ID: 880-5310-1 MSD

Matrix: Solid

Analysis Batch: 6923

Client Sample ID: C-106

Prep Type: Total/NA

Prep Batch: 6957

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	972.6		mg/Kg		97	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1059		mg/Kg		106	70 - 130	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	93		70 - 130								
o-Terphenyl (Surr)	97		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6947/1-A

Matrix: Solid

Analysis Batch: 6971

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			08/24/21 16:52	1		

Lab Sample ID: LCS 880-6947/2-A

Matrix: Solid

Analysis Batch: 6971

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	260.2		mg/Kg		104	90 - 110			

Lab Sample ID: LCSD 880-6947/3-A

Matrix: Solid

Analysis Batch: 6971

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	260.0		mg/Kg		104	90 - 110	0	20	

Lab Sample ID: 880-5310-1 MS

Matrix: Solid

Analysis Batch: 6971

Client Sample ID: C-106

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	60.5		249	332.2		mg/Kg		109	90 - 110		

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-5310-1 MSD

Matrix: Solid

Analysis Batch: 6971

Client Sample ID: C-106

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	60.5		249	323.5		mg/Kg		106	90 - 110	3	20

Lab Sample ID: MB 880-6996/1-A

Matrix: Solid

Analysis Batch: 7001

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/24/21 11:32	1

Lab Sample ID: LCS 880-6996/2-A

Matrix: Solid

Analysis Batch: 7001

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.8		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-6996/3-A

Matrix: Solid

Analysis Batch: 7001

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.8		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-5310-10 MS

Matrix: Solid

Analysis Batch: 7001

Client Sample ID: C-115

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<5.00	U	250	251.5		mg/Kg		101	90 - 110

Lab Sample ID: 880-5310-10 MSD

Matrix: Solid

Analysis Batch: 7001

Client Sample ID: C-115

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<5.00	U	250	251.1		mg/Kg		100	90 - 110	0	20

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

GC VOA

Prep Batch: 6935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5310-1	C-106	Total/NA	Solid	5035	
880-5310-2	C-107	Total/NA	Solid	5035	
880-5310-3	C-108	Total/NA	Solid	5035	
880-5310-4	C-109	Total/NA	Solid	5035	
880-5310-5	C-110	Total/NA	Solid	5035	
880-5310-6	C-111	Total/NA	Solid	5035	
880-5310-7	C-112	Total/NA	Solid	5035	
880-5310-8	C-113	Total/NA	Solid	5035	
880-5310-9	C-114	Total/NA	Solid	5035	
880-5310-10	C-115	Total/NA	Solid	5035	
880-5310-11	C-116	Total/NA	Solid	5035	
MB 880-6935/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6935/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6935/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5304-A-6-D MS	Matrix Spike	Total/NA	Solid	5035	
880-5304-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 6938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5310-1	C-106	Total/NA	Solid	8021B	6935
880-5310-2	C-107	Total/NA	Solid	8021B	6935
880-5310-3	C-108	Total/NA	Solid	8021B	6935
880-5310-4	C-109	Total/NA	Solid	8021B	6935
880-5310-5	C-110	Total/NA	Solid	8021B	6935
880-5310-6	C-111	Total/NA	Solid	8021B	6935
880-5310-7	C-112	Total/NA	Solid	8021B	6935
880-5310-8	C-113	Total/NA	Solid	8021B	6935
880-5310-9	C-114	Total/NA	Solid	8021B	6935
880-5310-10	C-115	Total/NA	Solid	8021B	6935
880-5310-11	C-116	Total/NA	Solid	8021B	6935
MB 880-6935/5-A	Method Blank	Total/NA	Solid	8021B	6935
LCS 880-6935/1-A	Lab Control Sample	Total/NA	Solid	8021B	6935
LCSD 880-6935/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6935
880-5304-A-6-D MS	Matrix Spike	Total/NA	Solid	8021B	6935
880-5304-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6935

GC Semi VOA

Analysis Batch: 6923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5310-1	C-106	Total/NA	Solid	8015B NM	6957
880-5310-2	C-107	Total/NA	Solid	8015B NM	6957
880-5310-3	C-108	Total/NA	Solid	8015B NM	6957
880-5310-4	C-109	Total/NA	Solid	8015B NM	6957
880-5310-5	C-110	Total/NA	Solid	8015B NM	6957
880-5310-6	C-111	Total/NA	Solid	8015B NM	6957
880-5310-7	C-112	Total/NA	Solid	8015B NM	6957
MB 880-6957/1-A	Method Blank	Total/NA	Solid	8015B NM	6957
LCS 880-6957/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6957
LCSD 880-6957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6957
880-5310-1 MS	C-106	Total/NA	Solid	8015B NM	6957

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 6923 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5310-1 MSD	C-106	Total/NA	Solid	8015B NM	6957

Analysis Batch: 6936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5310-8	C-113	Total/NA	Solid	8015B NM	6941
880-5310-9	C-114	Total/NA	Solid	8015B NM	6941
880-5310-10	C-115	Total/NA	Solid	8015B NM	6941
880-5310-11	C-116	Total/NA	Solid	8015B NM	6941
MB 880-6941/1-A	Method Blank	Total/NA	Solid	8015B NM	6941
LCS 880-6941/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6941
LCSD 880-6941/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6941
890-1140-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	6941
890-1140-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6941

Prep Batch: 6941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5310-8	C-113	Total/NA	Solid	8015NM Prep	
880-5310-9	C-114	Total/NA	Solid	8015NM Prep	
880-5310-10	C-115	Total/NA	Solid	8015NM Prep	
880-5310-11	C-116	Total/NA	Solid	8015NM Prep	
MB 880-6941/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6941/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6941/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1140-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1140-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 6957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5310-1	C-106	Total/NA	Solid	8015NM Prep	
880-5310-2	C-107	Total/NA	Solid	8015NM Prep	
880-5310-3	C-108	Total/NA	Solid	8015NM Prep	
880-5310-4	C-109	Total/NA	Solid	8015NM Prep	
880-5310-5	C-110	Total/NA	Solid	8015NM Prep	
880-5310-6	C-111	Total/NA	Solid	8015NM Prep	
880-5310-7	C-112	Total/NA	Solid	8015NM Prep	
MB 880-6957/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6957/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5310-1 MS	C-106	Total/NA	Solid	8015NM Prep	
880-5310-1 MSD	C-106	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 6947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5310-1	C-106	Soluble	Solid	DI Leach	
880-5310-2	C-107	Soluble	Solid	DI Leach	
880-5310-3	C-108	Soluble	Solid	DI Leach	
880-5310-4	C-109	Soluble	Solid	DI Leach	
880-5310-5	C-110	Soluble	Solid	DI Leach	
880-5310-6	C-111	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 6947 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5310-7	C-112	Soluble	Solid	DI Leach	
880-5310-8	C-113	Soluble	Solid	DI Leach	
MB 880-6947/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6947/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6947/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5310-1 MS	C-106	Soluble	Solid	DI Leach	
880-5310-1 MSD	C-106	Soluble	Solid	DI Leach	

Analysis Batch: 6971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5310-1	C-106	Soluble	Solid	300.0	6947
880-5310-2	C-107	Soluble	Solid	300.0	6947
880-5310-3	C-108	Soluble	Solid	300.0	6947
880-5310-4	C-109	Soluble	Solid	300.0	6947
880-5310-5	C-110	Soluble	Solid	300.0	6947
880-5310-6	C-111	Soluble	Solid	300.0	6947
880-5310-7	C-112	Soluble	Solid	300.0	6947
880-5310-8	C-113	Soluble	Solid	300.0	6947
MB 880-6947/1-A	Method Blank	Soluble	Solid	300.0	6947
LCS 880-6947/2-A	Lab Control Sample	Soluble	Solid	300.0	6947
LCSD 880-6947/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6947
880-5310-1 MS	C-106	Soluble	Solid	300.0	6947
880-5310-1 MSD	C-106	Soluble	Solid	300.0	6947

Leach Batch: 6996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5310-9	C-114	Soluble	Solid	DI Leach	
880-5310-10	C-115	Soluble	Solid	DI Leach	
880-5310-11	C-116	Soluble	Solid	DI Leach	
MB 880-6996/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6996/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6996/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5310-10 MS	C-115	Soluble	Solid	DI Leach	
880-5310-10 MSD	C-115	Soluble	Solid	DI Leach	

Analysis Batch: 7001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5310-9	C-114	Soluble	Solid	300.0	6996
880-5310-10	C-115	Soluble	Solid	300.0	6996
880-5310-11	C-116	Soluble	Solid	300.0	6996
MB 880-6996/1-A	Method Blank	Soluble	Solid	300.0	6996
LCS 880-6996/2-A	Lab Control Sample	Soluble	Solid	300.0	6996
LCSD 880-6996/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6996
880-5310-10 MS	C-115	Soluble	Solid	300.0	6996
880-5310-10 MSD	C-115	Soluble	Solid	300.0	6996

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Client Sample ID: C-106

Lab Sample ID: 880-5310-1

Date Collected: 08/20/21 11:30

Matrix: Solid

Date Received: 08/23/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6935	08/23/21 10:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6938	08/23/21 14:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6957	08/23/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6923	08/23/21 22:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6947	08/23/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			6971	08/24/21 17:08	CH	XEN MID

Client Sample ID: C-107

Lab Sample ID: 880-5310-2

Date Collected: 08/20/21 11:31

Matrix: Solid

Date Received: 08/23/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6935	08/23/21 10:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6938	08/23/21 15:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6957	08/23/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6923	08/23/21 23:43	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6947	08/23/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			6971	08/25/21 08:16	CH	XEN MID

Client Sample ID: C-108

Lab Sample ID: 880-5310-3

Date Collected: 08/20/21 11:32

Matrix: Solid

Date Received: 08/23/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6935	08/23/21 10:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6938	08/23/21 15:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6957	08/23/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6923	08/24/21 00:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6947	08/23/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			6971	08/25/21 08:21	CH	XEN MID

Client Sample ID: C-109

Lab Sample ID: 880-5310-4

Date Collected: 08/20/21 11:33

Matrix: Solid

Date Received: 08/23/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6935	08/23/21 10:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6938	08/23/21 15:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6957	08/23/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6923	08/24/21 00:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6947	08/23/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			6971	08/25/21 08:26	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Client Sample ID: C-110

Lab Sample ID: 880-5310-5

Date Collected: 08/20/21 11:34

Matrix: Solid

Date Received: 08/23/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6935	08/23/21 10:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6938	08/23/21 16:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6957	08/23/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6923	08/24/21 00:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6947	08/23/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			6971	08/25/21 10:39	CH	XEN MID

Client Sample ID: C-111

Lab Sample ID: 880-5310-6

Date Collected: 08/20/21 11:35

Matrix: Solid

Date Received: 08/23/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6935	08/23/21 10:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6938	08/23/21 16:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6957	08/23/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6923	08/24/21 01:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6947	08/23/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			6971	08/25/21 08:42	CH	XEN MID

Client Sample ID: C-112

Lab Sample ID: 880-5310-7

Date Collected: 08/20/21 11:36

Matrix: Solid

Date Received: 08/23/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6935	08/23/21 10:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6938	08/23/21 16:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6957	08/23/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6923	08/24/21 01:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6947	08/23/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			6971	08/25/21 08:47	CH	XEN MID

Client Sample ID: C-113

Lab Sample ID: 880-5310-8

Date Collected: 08/20/21 11:37

Matrix: Solid

Date Received: 08/23/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6935	08/23/21 10:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6938	08/23/21 17:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6941	08/23/21 10:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6936	08/23/21 20:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6947	08/23/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			6971	08/25/21 08:53	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Client Sample ID: C-114

Lab Sample ID: 880-5310-9

Date Collected: 08/20/21 11:38

Matrix: Solid

Date Received: 08/23/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6935	08/23/21 10:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6938	08/23/21 18:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6941	08/23/21 10:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6936	08/23/21 20:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6996	08/24/21 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			7001	08/24/21 12:57	CH	XEN MID

Client Sample ID: C-115

Lab Sample ID: 880-5310-10

Date Collected: 08/20/21 11:39

Matrix: Solid

Date Received: 08/23/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6935	08/23/21 10:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6938	08/23/21 19:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6941	08/23/21 10:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6936	08/23/21 20:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6996	08/24/21 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			7001	08/24/21 13:02	CH	XEN MID

Client Sample ID: C-116

Lab Sample ID: 880-5310-11

Date Collected: 08/20/21 11:40

Matrix: Solid

Date Received: 08/23/21 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6935	08/23/21 10:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6938	08/23/21 19:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6941	08/23/21 10:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6936	08/23/21 21:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6996	08/24/21 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			7001	08/24/21 13:18	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5310-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5310-1	C-106	Solid	08/20/21 11:30	08/23/21 09:16
880-5310-2	C-107	Solid	08/20/21 11:31	08/23/21 09:16
880-5310-3	C-108	Solid	08/20/21 11:32	08/23/21 09:16
880-5310-4	C-109	Solid	08/20/21 11:33	08/23/21 09:16
880-5310-5	C-110	Solid	08/20/21 11:34	08/23/21 09:16
880-5310-6	C-111	Solid	08/20/21 11:35	08/23/21 09:16
880-5310-7	C-112	Solid	08/20/21 11:36	08/23/21 09:16
880-5310-8	C-113	Solid	08/20/21 11:37	08/23/21 09:16
880-5310-9	C-114	Solid	08/20/21 11:38	08/23/21 09:16
880-5310-10	C-115	Solid	08/20/21 11:39	08/23/21 09:16
880-5310-11	C-116	Solid	08/20/21 11:40	08/23/21 09:16

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-5310-1

SDG Number: 21-0105-02

Login Number: 5310

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-5664-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
9/7/2021 10:13:46 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-5664-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Midland

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Job ID: 880-5664-1

Laboratory: Eurofins Xenco, Midland

Narrative

**Job Narrative
880-5664-1**

Receipt

The samples were received on 8/31/2021 2:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-118 (880-5664-2), C-120 (880-5664-4), C-121 (880-5664-5), C-122 (880-5664-6), C-124 (880-5664-8), C-125 (880-5664-9) and C-136 (880-5664-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7381 and analytical batch 880-7418 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-139 (880-5664-23), C-142 (880-5664-26), C-147 (880-5664-31), C-149 (880-5664-33), C-151 (880-5664-35) and C-154 (880-5664-38). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-178 (880-5664-62), C-180 (880-5664-64), C-182 (880-5664-66), C-186 (880-5664-70) and C-195 (880-5664-79). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7447 and analytical batch 880-7459 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7382 and analytical batch 880-7420 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 880-7382 and analytical batch 880-7420 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-184 (880-5664-68), C-188 (880-5664-72) and C-190 (880-5664-74). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7403 and analytical batch 880-7359 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-7388 and analytical batch 880-7421 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7390 and analytical batch 880-7423 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Job ID: 880-5664-1 (Continued)

Laboratory: Eurofins Xenco, Midland (Continued)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7398 and analytical batch 880-7425 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7400 and analytical batch 880-7427 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7392 and 880-7392 and analytical batch 880-7452 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-117

Lab Sample ID: 880-5664-1

Date Collected: 08/25/21 13:17

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 12:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 12:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 12:51	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 12:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 12:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 12:51	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/01/21 08:59	09/01/21 12:51	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/01/21 08:59	09/01/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	50.0	mg/Kg		09/01/21 11:04	09/02/21 12:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0	mg/Kg		09/01/21 11:04	09/02/21 12:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 12:25	1
Total TPH	<50.0	U F1	50.0	mg/Kg		09/01/21 11:04	09/02/21 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	09/01/21 11:04	09/02/21 12:25	1
o-Terphenyl (Surr)	110		70 - 130	09/01/21 11:04	09/02/21 12:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.3		4.99	mg/Kg			09/02/21 22:06	1

Client Sample ID: C-118

Lab Sample ID: 880-5664-2

Date Collected: 08/25/21 13:18

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 13:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 13:11	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 13:11	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 13:11	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 13:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 13:11	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130	09/01/21 08:59	09/01/21 13:11	1
1,4-Difluorobenzene (Surr)	91		70 - 130	09/01/21 08:59	09/01/21 13:11	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 13:29	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-118

Lab Sample ID: 880-5664-2

Date Collected: 08/25/21 13:18

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 13:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 13:29	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 13:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/01/21 11:04	09/02/21 13:29	1
o-Terphenyl (Surr)	100		70 - 130			09/01/21 11:04	09/02/21 13:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.2		5.02	mg/Kg			09/02/21 22:12	1

Client Sample ID: C-119

Lab Sample ID: 880-5664-3

Date Collected: 08/25/21 13:19

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 13:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 13:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 13:32	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/01/21 08:59	09/01/21 13:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 13:32	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/01/21 08:59	09/01/21 13:32	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/01/21 08:59	09/01/21 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			09/01/21 08:59	09/01/21 13:32	1
1,4-Difluorobenzene (Surr)	100		70 - 130			09/01/21 08:59	09/01/21 13:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 13:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 13:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 13:50	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			09/01/21 11:04	09/02/21 13:50	1
o-Terphenyl (Surr)	93		70 - 130			09/01/21 11:04	09/02/21 13:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		4.98	mg/Kg			09/02/21 22:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-120

Lab Sample ID: 880-5664-4

Date Collected: 08/25/21 13:20

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 13:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 13:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 13:52	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 08:59	09/01/21 13:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 13:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 08:59	09/01/21 13:52	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 08:59	09/01/21 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	09/01/21 08:59	09/01/21 13:52	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/01/21 08:59	09/01/21 13:52	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 14:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 14:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 14:12	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	09/01/21 11:04	09/02/21 14:12	1
o-Terphenyl (Surr)	96		70 - 130	09/01/21 11:04	09/02/21 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		5.00	mg/Kg			09/02/21 22:23	1

Client Sample ID: C-121

Lab Sample ID: 880-5664-5

Date Collected: 08/25/21 13:21

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 14:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 14:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 14:13	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/01/21 08:59	09/01/21 14:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 14:13	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/01/21 08:59	09/01/21 14:13	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/01/21 08:59	09/01/21 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	09/01/21 08:59	09/01/21 14:13	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/01/21 08:59	09/01/21 14:13	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 14:33	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-121

Lab Sample ID: 880-5664-5

Date Collected: 08/25/21 13:21

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 14:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 14:33	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			09/01/21 11:04	09/02/21 14:33	1
o-Terphenyl (Surr)	105		70 - 130			09/01/21 11:04	09/02/21 14:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.4		5.05	mg/Kg			09/02/21 22:29	1

Client Sample ID: C-122

Lab Sample ID: 880-5664-6

Date Collected: 08/25/21 13:22

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 08:59	09/01/21 14:33	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/21 08:59	09/01/21 14:33	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/21 08:59	09/01/21 14:33	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/01/21 08:59	09/01/21 14:33	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 08:59	09/01/21 14:33	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/01/21 08:59	09/01/21 14:33	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/01/21 08:59	09/01/21 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			09/01/21 08:59	09/01/21 14:33	1
1,4-Difluorobenzene (Surr)	94		70 - 130			09/01/21 08:59	09/01/21 14:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 14:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 14:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 14:55	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 14:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/01/21 11:04	09/02/21 14:55	1
o-Terphenyl (Surr)	100		70 - 130			09/01/21 11:04	09/02/21 14:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.9		4.98	mg/Kg			09/02/21 22:46	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-123

Lab Sample ID: 880-5664-7

Date Collected: 08/25/21 13:23

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/01/21 08:59	09/01/21 14:53	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/21 08:59	09/01/21 14:53	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/01/21 08:59	09/01/21 14:53	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/01/21 08:59	09/01/21 14:53	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/21 08:59	09/01/21 14:53	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/01/21 08:59	09/01/21 14:53	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/01/21 08:59	09/01/21 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/01/21 08:59	09/01/21 14:53	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/01/21 08:59	09/01/21 14:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 15:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 15:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 15:16	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	09/01/21 11:04	09/02/21 15:16	1
o-Terphenyl (Surr)	99		70 - 130	09/01/21 11:04	09/02/21 15:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		5.01	mg/Kg			09/02/21 22:51	1

Client Sample ID: C-124

Lab Sample ID: 880-5664-8

Date Collected: 08/25/21 13:24

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/02/21 13:48	09/03/21 01:44	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/02/21 13:48	09/03/21 01:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/02/21 13:48	09/03/21 01:44	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/02/21 13:48	09/03/21 01:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/02/21 13:48	09/03/21 01:44	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/02/21 13:48	09/03/21 01:44	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/02/21 13:48	09/03/21 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/02/21 13:48	09/03/21 01:44	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/02/21 13:48	09/03/21 01:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 15:37	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-124

Lab Sample ID: 880-5664-8

Date Collected: 08/25/21 13:24

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 15:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 15:37	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 15:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			09/01/21 11:04	09/02/21 15:37	1
o-Terphenyl (Surr)	100		70 - 130			09/01/21 11:04	09/02/21 15:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.2		4.97	mg/Kg			09/02/21 23:08	1

Client Sample ID: C-125

Lab Sample ID: 880-5664-9

Date Collected: 08/25/21 13:25

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 15:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 15:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 15:34	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 08:59	09/01/21 15:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 15:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 08:59	09/01/21 15:34	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 08:59	09/01/21 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130			09/01/21 08:59	09/01/21 15:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/01/21 08:59	09/01/21 15:34	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 15:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 15:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 15:58	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 15:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			09/01/21 11:04	09/02/21 15:58	1
o-Terphenyl (Surr)	99		70 - 130			09/01/21 11:04	09/02/21 15:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.8		4.96	mg/Kg			09/02/21 23:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-126

Lab Sample ID: 880-5664-10

Date Collected: 08/25/21 13:26

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/01/21 08:59	09/01/21 15:54	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/21 08:59	09/01/21 15:54	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/01/21 08:59	09/01/21 15:54	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/01/21 08:59	09/01/21 15:54	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/21 08:59	09/01/21 15:54	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/01/21 08:59	09/01/21 15:54	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		09/01/21 08:59	09/01/21 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/01/21 08:59	09/01/21 15:54	1
1,4-Difluorobenzene (Surr)	74		70 - 130	09/01/21 08:59	09/01/21 15:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	78.4		49.8	mg/Kg		09/01/21 11:04	09/02/21 16:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 16:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 16:19	1
Total TPH	78.4		49.8	mg/Kg		09/01/21 11:04	09/02/21 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	09/01/21 11:04	09/02/21 16:19	1
o-Terphenyl (Surr)	113		70 - 130	09/01/21 11:04	09/02/21 16:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.9		4.98	mg/Kg			09/02/21 23:19	1

Client Sample ID: C-127

Lab Sample ID: 880-5664-11

Date Collected: 08/25/21 13:27

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 17:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 17:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 17:45	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/01/21 08:59	09/01/21 17:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 17:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/01/21 08:59	09/01/21 17:45	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/01/21 08:59	09/01/21 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/01/21 08:59	09/01/21 17:45	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/01/21 08:59	09/01/21 17:45	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 17:01	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-127

Lab Sample ID: 880-5664-11

Date Collected: 08/25/21 13:27

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 17:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 17:01	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 17:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			09/01/21 11:04	09/02/21 17:01	1
o-Terphenyl (Surr)	89		70 - 130			09/01/21 11:04	09/02/21 17:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.5		4.99	mg/Kg			09/02/21 23:25	1

Client Sample ID: C-128

Lab Sample ID: 880-5664-12

Date Collected: 08/25/21 13:28

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 18:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 18:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 18:05	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 18:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 18:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 18:05	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 18:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			09/01/21 08:59	09/01/21 18:05	1
1,4-Difluorobenzene (Surr)	76		70 - 130			09/01/21 08:59	09/01/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 17:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 17:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 17:23	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 17:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			09/01/21 11:04	09/02/21 17:23	1
o-Terphenyl (Surr)	94		70 - 130			09/01/21 11:04	09/02/21 17:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		5.00	mg/Kg			09/02/21 23:31	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-129

Lab Sample ID: 880-5664-13

Date Collected: 08/25/21 13:29

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 18:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 18:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 18:26	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 08:59	09/01/21 18:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 18:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 08:59	09/01/21 18:26	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 08:59	09/01/21 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	09/01/21 08:59	09/01/21 18:26	1
1,4-Difluorobenzene (Surr)	75		70 - 130	09/01/21 08:59	09/01/21 18:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 17:44	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	09/01/21 11:04	09/02/21 17:44	1
o-Terphenyl (Surr)	102		70 - 130	09/01/21 11:04	09/02/21 17:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.3		5.00	mg/Kg			09/02/21 23:36	1

Client Sample ID: C-130

Lab Sample ID: 880-5664-14

Date Collected: 08/25/21 13:30

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 08:59	09/01/21 18:46	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/21 08:59	09/01/21 18:46	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/21 08:59	09/01/21 18:46	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/01/21 08:59	09/01/21 18:46	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 08:59	09/01/21 18:46	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/01/21 08:59	09/01/21 18:46	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		09/01/21 08:59	09/01/21 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/01/21 08:59	09/01/21 18:46	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/01/21 08:59	09/01/21 18:46	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 18:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-130

Lab Sample ID: 880-5664-14

Date Collected: 08/25/21 13:30

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 18:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 18:05	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 18:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/01/21 11:04	09/02/21 18:05	1
o-Terphenyl (Surr)	97		70 - 130			09/01/21 11:04	09/02/21 18:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.3		4.95	mg/Kg			09/02/21 23:42	1

Client Sample ID: C-131

Lab Sample ID: 880-5664-15

Date Collected: 08/25/21 13:31

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 19:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 19:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 19:07	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 08:59	09/01/21 19:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 19:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 08:59	09/01/21 19:07	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 08:59	09/01/21 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130			09/01/21 08:59	09/01/21 19:07	1
1,4-Difluorobenzene (Surr)	78		70 - 130			09/01/21 08:59	09/01/21 19:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 18:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 18:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 18:26	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			09/01/21 11:04	09/02/21 18:26	1
o-Terphenyl (Surr)	91		70 - 130			09/01/21 11:04	09/02/21 18:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.4		4.98	mg/Kg			09/03/21 20:07	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-132

Lab Sample ID: 880-5664-16

Date Collected: 08/25/21 13:32

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/01/21 08:59	09/01/21 19:27	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/21 08:59	09/01/21 19:27	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/01/21 08:59	09/01/21 19:27	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/01/21 08:59	09/01/21 19:27	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/21 08:59	09/01/21 19:27	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/01/21 08:59	09/01/21 19:27	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/01/21 08:59	09/01/21 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/01/21 08:59	09/01/21 19:27	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/01/21 08:59	09/01/21 19:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 18:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 18:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 18:47	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:04	09/02/21 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	09/01/21 11:04	09/02/21 18:47	1
o-Terphenyl (Surr)	105		70 - 130	09/01/21 11:04	09/02/21 18:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.2		5.04	mg/Kg			09/03/21 20:24	1

Client Sample ID: C-133

Lab Sample ID: 880-5664-17

Date Collected: 08/25/21 13:33

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 19:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 19:48	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 19:48	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 08:59	09/01/21 19:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 08:59	09/01/21 19:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 08:59	09/01/21 19:48	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 08:59	09/01/21 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	09/01/21 08:59	09/01/21 19:48	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/01/21 08:59	09/01/21 19:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 19:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-133

Lab Sample ID: 880-5664-17

Date Collected: 08/25/21 13:33

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 19:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 19:08	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 19:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			09/01/21 11:04	09/02/21 19:08	1
o-Terphenyl (Surr)	97		70 - 130			09/01/21 11:04	09/02/21 19:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.3		5.02	mg/Kg			09/03/21 20:29	1

Client Sample ID: C-134

Lab Sample ID: 880-5664-18

Date Collected: 08/25/21 13:34

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 20:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 20:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 20:08	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/01/21 08:59	09/01/21 20:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 20:08	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/01/21 08:59	09/01/21 20:08	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/01/21 08:59	09/01/21 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			09/01/21 08:59	09/01/21 20:08	1
1,4-Difluorobenzene (Surr)	74		70 - 130			09/01/21 08:59	09/01/21 20:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 19:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 19:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 19:30	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 11:04	09/02/21 19:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/01/21 11:04	09/02/21 19:30	1
o-Terphenyl (Surr)	93		70 - 130			09/01/21 11:04	09/02/21 19:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.6		4.95	mg/Kg			09/03/21 20:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-135

Lab Sample ID: 880-5664-19

Date Collected: 08/25/21 13:35

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 20:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 20:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 20:28	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 20:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 20:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 20:28	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/01/21 08:59	09/01/21 20:28	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/01/21 08:59	09/01/21 20:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 19:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 19:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 19:50	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	09/01/21 11:04	09/02/21 19:50	1
o-Terphenyl (Surr)	88		70 - 130	09/01/21 11:04	09/02/21 19:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		4.99	mg/Kg			09/03/21 20:40	1

Client Sample ID: C-136

Lab Sample ID: 880-5664-20

Date Collected: 08/25/21 13:36

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 20:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 20:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 20:49	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 20:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 08:59	09/01/21 20:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 20:49	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 08:59	09/01/21 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	09/01/21 08:59	09/01/21 20:49	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/01/21 08:59	09/01/21 20:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 20:12	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-136

Lab Sample ID: 880-5664-20

Date Collected: 08/25/21 13:36

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 20:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 20:12	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 20:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			09/01/21 11:04	09/02/21 20:12	1
o-Terphenyl (Surr)	90		70 - 130			09/01/21 11:04	09/02/21 20:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.6		5.00	mg/Kg			09/03/21 20:57	1

Client Sample ID: C-137

Lab Sample ID: 880-5664-21

Date Collected: 08/25/21 13:37

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 13:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 13:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 13:30	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/01/21 09:06	09/02/21 13:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 13:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/01/21 09:06	09/02/21 13:30	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/01/21 09:06	09/02/21 13:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			09/01/21 09:06	09/02/21 13:30	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/01/21 09:06	09/02/21 13:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 12:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0	mg/Kg		09/01/21 11:19	09/02/21 12:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 12:25	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 12:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			09/01/21 11:19	09/02/21 12:25	1
o-Terphenyl (Surr)	99		70 - 130			09/01/21 11:19	09/02/21 12:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		5.00	mg/Kg			09/03/21 21:03	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-138

Lab Sample ID: 880-5664-22

Date Collected: 08/25/21 13:38

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 13:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 13:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 13:57	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/01/21 09:06	09/02/21 13:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 13:57	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/01/21 09:06	09/02/21 13:57	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/01/21 09:06	09/02/21 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/01/21 09:06	09/02/21 13:57	1
1,4-Difluorobenzene (Surr)	112		70 - 130	09/01/21 09:06	09/02/21 13:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 13:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 13:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 13:29	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	09/01/21 11:19	09/02/21 13:29	1
o-Terphenyl (Surr)	112		70 - 130	09/01/21 11:19	09/02/21 13:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.9		4.98	mg/Kg			09/03/21 21:08	1

Client Sample ID: C-139

Lab Sample ID: 880-5664-23

Date Collected: 08/25/21 13:39

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 14:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 14:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 14:23	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/01/21 09:06	09/02/21 14:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 14:23	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/01/21 09:06	09/02/21 14:23	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/01/21 09:06	09/02/21 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130	09/01/21 09:06	09/02/21 14:23	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/01/21 09:06	09/02/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 13:50	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-139

Lab Sample ID: 880-5664-23

Date Collected: 08/25/21 13:39

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 13:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 13:50	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/01/21 11:19	09/02/21 13:50	1
o-Terphenyl (Surr)	99		70 - 130			09/01/21 11:19	09/02/21 13:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.2		4.99	mg/Kg			09/03/21 21:14	1

Client Sample ID: C-140

Lab Sample ID: 880-5664-24

Date Collected: 08/25/21 13:40

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:06	09/02/21 14:49	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:06	09/02/21 14:49	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:06	09/02/21 14:49	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 09:06	09/02/21 14:49	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:06	09/02/21 14:49	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 09:06	09/02/21 14:49	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 09:06	09/02/21 14:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/01/21 09:06	09/02/21 14:49	1
1,4-Difluorobenzene (Surr)	118		70 - 130			09/01/21 09:06	09/02/21 14:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 14:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 14:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 14:12	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			09/01/21 11:19	09/02/21 14:12	1
o-Terphenyl (Surr)	103		70 - 130			09/01/21 11:19	09/02/21 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.9		5.00	mg/Kg			09/03/21 21:20	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-141

Lab Sample ID: 880-5664-25

Date Collected: 08/25/21 13:41

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 15:15	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 15:15	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 15:15	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/01/21 09:06	09/02/21 15:15	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 15:15	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/01/21 09:06	09/02/21 15:15	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		09/01/21 09:06	09/02/21 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	09/01/21 09:06	09/02/21 15:15	1
1,4-Difluorobenzene (Surr)	120		70 - 130	09/01/21 09:06	09/02/21 15:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 14:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 14:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 14:33	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	09/01/21 11:19	09/02/21 14:33	1
o-Terphenyl (Surr)	115		70 - 130	09/01/21 11:19	09/02/21 14:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		4.95	mg/Kg			09/03/21 21:25	1

Client Sample ID: C-142

Lab Sample ID: 880-5664-26

Date Collected: 08/25/21 13:42

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 15:42	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 15:42	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 15:42	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/01/21 09:06	09/02/21 15:42	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 15:42	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/01/21 09:06	09/02/21 15:42	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/01/21 09:06	09/02/21 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	09/01/21 09:06	09/02/21 15:42	1
1,4-Difluorobenzene (Surr)	80		70 - 130	09/01/21 09:06	09/02/21 15:42	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 14:55	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-142

Lab Sample ID: 880-5664-26

Date Collected: 08/25/21 13:42

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 14:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 14:55	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 14:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/01/21 11:19	09/02/21 14:55	1
o-Terphenyl (Surr)	101		70 - 130			09/01/21 11:19	09/02/21 14:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.0		5.04	mg/Kg			09/03/21 21:42	1

Client Sample ID: C-143

Lab Sample ID: 880-5664-27

Date Collected: 08/25/21 13:43

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 16:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 16:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 16:08	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/01/21 09:06	09/02/21 16:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 16:08	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/01/21 09:06	09/02/21 16:08	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/01/21 09:06	09/02/21 16:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			09/01/21 09:06	09/02/21 16:08	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/01/21 09:06	09/02/21 16:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 15:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 15:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 15:16	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/01/21 11:19	09/02/21 15:16	1
o-Terphenyl (Surr)	105		70 - 130			09/01/21 11:19	09/02/21 15:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	216		5.01	mg/Kg			09/03/21 21:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-144

Lab Sample ID: 880-5664-28

Date Collected: 08/25/21 13:44

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 16:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 16:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 16:34	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:06	09/02/21 16:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 16:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:06	09/02/21 16:34	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:06	09/02/21 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/01/21 09:06	09/02/21 16:34	1
1,4-Difluorobenzene (Surr)	115		70 - 130	09/01/21 09:06	09/02/21 16:34	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 15:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 15:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 15:37	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	09/01/21 11:19	09/02/21 15:37	1
o-Terphenyl (Surr)	106		70 - 130	09/01/21 11:19	09/02/21 15:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.0		4.98	mg/Kg			09/03/21 22:04	1

Client Sample ID: C-145

Lab Sample ID: 880-5664-29

Date Collected: 08/25/21 13:45

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:06	09/02/21 17:01	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:06	09/02/21 17:01	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:06	09/02/21 17:01	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 09:06	09/02/21 17:01	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:06	09/02/21 17:01	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 09:06	09/02/21 17:01	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 09:06	09/02/21 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	09/01/21 09:06	09/02/21 17:01	1
1,4-Difluorobenzene (Surr)	114		70 - 130	09/01/21 09:06	09/02/21 17:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 15:58	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-145

Lab Sample ID: 880-5664-29

Date Collected: 08/25/21 13:45

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 15:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 15:58	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 15:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/01/21 11:19	09/02/21 15:58	1
o-Terphenyl (Surr)	100		70 - 130			09/01/21 11:19	09/02/21 15:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.4		4.97	mg/Kg			09/03/21 22:10	1

Client Sample ID: C-146

Lab Sample ID: 880-5664-30

Date Collected: 08/25/21 13:46

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/02/21 13:48	09/03/21 02:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/02/21 13:48	09/03/21 02:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/02/21 13:48	09/03/21 02:05	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/02/21 13:48	09/03/21 02:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/02/21 13:48	09/03/21 02:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/02/21 13:48	09/03/21 02:05	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/02/21 13:48	09/03/21 02:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			09/02/21 13:48	09/03/21 02:05	1
1,4-Difluorobenzene (Surr)	73		70 - 130			09/02/21 13:48	09/03/21 02:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 16:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 16:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 16:19	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 16:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/01/21 11:19	09/02/21 16:19	1
o-Terphenyl (Surr)	94		70 - 130			09/01/21 11:19	09/02/21 16:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.8		4.95	mg/Kg			09/03/21 22:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-147

Lab Sample ID: 880-5664-31

Date Collected: 08/25/21 13:47

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:06	09/02/21 19:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:06	09/02/21 19:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:06	09/02/21 19:12	1
m,p-Xylenes	0.00438		0.00398	mg/Kg		09/01/21 09:06	09/02/21 19:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:06	09/02/21 19:12	1
Xylenes, Total	0.00438		0.00398	mg/Kg		09/01/21 09:06	09/02/21 19:12	1
Total BTEX	0.00438		0.00398	mg/Kg		09/01/21 09:06	09/02/21 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	09/01/21 09:06	09/02/21 19:12	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/01/21 09:06	09/02/21 19:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 17:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 17:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 17:01	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130	09/01/21 11:19	09/02/21 17:01	1
o-Terphenyl (Surr)	76		70 - 130	09/01/21 11:19	09/02/21 17:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.9		5.05	mg/Kg			09/03/21 22:21	1

Client Sample ID: C-148

Lab Sample ID: 880-5664-32

Date Collected: 08/25/21 13:48

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:06	09/02/21 19:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:06	09/02/21 19:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:06	09/02/21 19:38	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 09:06	09/02/21 19:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:06	09/02/21 19:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 09:06	09/02/21 19:38	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 09:06	09/02/21 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	09/01/21 09:06	09/02/21 19:38	1
1,4-Difluorobenzene (Surr)	117		70 - 130	09/01/21 09:06	09/02/21 19:38	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 17:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-148

Lab Sample ID: 880-5664-32

Date Collected: 08/25/21 13:48

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 17:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 17:23	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 17:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			09/01/21 11:19	09/02/21 17:23	1
o-Terphenyl (Surr)	85		70 - 130			09/01/21 11:19	09/02/21 17:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.0		4.98	mg/Kg			09/03/21 22:27	1

Client Sample ID: C-149

Lab Sample ID: 880-5664-33

Date Collected: 08/25/21 13:49

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 20:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 20:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 20:05	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/01/21 09:06	09/02/21 20:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 20:05	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/01/21 09:06	09/02/21 20:05	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/01/21 09:06	09/02/21 20:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	205	S1+	70 - 130			09/01/21 09:06	09/02/21 20:05	1
1,4-Difluorobenzene (Surr)	79		70 - 130			09/01/21 09:06	09/02/21 20:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 17:44	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 17:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			09/01/21 11:19	09/02/21 17:44	1
o-Terphenyl (Surr)	99		70 - 130			09/01/21 11:19	09/02/21 17:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		5.04	mg/Kg			09/03/21 22:32	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-150

Lab Sample ID: 880-5664-34

Date Collected: 08/25/21 13:50

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:06	09/02/21 20:31	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:06	09/02/21 20:31	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:06	09/02/21 20:31	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/01/21 09:06	09/02/21 20:31	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:06	09/02/21 20:31	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/01/21 09:06	09/02/21 20:31	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		09/01/21 09:06	09/02/21 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	09/01/21 09:06	09/02/21 20:31	1
1,4-Difluorobenzene (Surr)	114		70 - 130	09/01/21 09:06	09/02/21 20:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 18:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 18:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 18:05	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	09/01/21 11:19	09/02/21 18:05	1
o-Terphenyl (Surr)	106		70 - 130	09/01/21 11:19	09/02/21 18:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.98	mg/Kg			09/03/21 22:38	1

Client Sample ID: C-151

Lab Sample ID: 880-5664-35

Date Collected: 08/25/21 13:51

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:06	09/02/21 20:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:06	09/02/21 20:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:06	09/02/21 20:58	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 09:06	09/02/21 20:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:06	09/02/21 20:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 09:06	09/02/21 20:58	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 09:06	09/02/21 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	09/01/21 09:06	09/02/21 20:58	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/01/21 09:06	09/02/21 20:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 18:26	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-151

Lab Sample ID: 880-5664-35

Date Collected: 08/25/21 13:51

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 18:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 18:26	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/01/21 11:19	09/02/21 18:26	1
o-Terphenyl (Surr)	109		70 - 130			09/01/21 11:19	09/02/21 18:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	331		5.04	mg/Kg			09/01/21 18:47	1

Client Sample ID: C-152

Lab Sample ID: 880-5664-36

Date Collected: 08/25/21 13:52

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 21:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 21:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 21:24	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/01/21 09:06	09/02/21 21:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 21:24	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/01/21 09:06	09/02/21 21:24	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/01/21 09:06	09/02/21 21:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			09/01/21 09:06	09/02/21 21:24	1
1,4-Difluorobenzene (Surr)	121		70 - 130			09/01/21 09:06	09/02/21 21:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 18:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 18:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 18:47	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 11:19	09/02/21 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/01/21 11:19	09/02/21 18:47	1
o-Terphenyl (Surr)	110		70 - 130			09/01/21 11:19	09/02/21 18:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257		5.00	mg/Kg			09/01/21 18:53	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-153

Lab Sample ID: 880-5664-37

Date Collected: 08/25/21 13:53

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 21:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 21:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 21:51	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/01/21 09:06	09/02/21 21:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 21:51	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/01/21 09:06	09/02/21 21:51	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		09/01/21 09:06	09/02/21 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	09/01/21 09:06	09/02/21 21:51	1
1,4-Difluorobenzene (Surr)	110		70 - 130	09/01/21 09:06	09/02/21 21:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 19:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 19:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 19:08	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	09/01/21 11:19	09/02/21 19:08	1
o-Terphenyl (Surr)	108		70 - 130	09/01/21 11:19	09/02/21 19:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	792		4.96	mg/Kg			09/01/21 19:08	1

Client Sample ID: C-154

Lab Sample ID: 880-5664-38

Date Collected: 08/25/21 13:54

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 22:17	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 22:17	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 22:17	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/01/21 09:06	09/02/21 22:17	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:06	09/02/21 22:17	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/01/21 09:06	09/02/21 22:17	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/01/21 09:06	09/02/21 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	09/01/21 09:06	09/02/21 22:17	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/01/21 09:06	09/02/21 22:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 19:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-154

Lab Sample ID: 880-5664-38

Date Collected: 08/25/21 13:54

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 19:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 19:30	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 11:19	09/02/21 19:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/01/21 11:19	09/02/21 19:30	1
o-Terphenyl (Surr)	109		70 - 130			09/01/21 11:19	09/02/21 19:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.1		4.98	mg/Kg			09/01/21 19:14	1

Client Sample ID: C-155

Lab Sample ID: 880-5664-39

Date Collected: 08/25/21 13:55

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:06	09/02/21 22:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:06	09/02/21 22:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:06	09/02/21 22:44	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 09:06	09/02/21 22:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:06	09/02/21 22:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 09:06	09/02/21 22:44	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 09:06	09/02/21 22:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			09/01/21 09:06	09/02/21 22:44	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/01/21 09:06	09/02/21 22:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 19:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 19:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 19:50	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 19:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			09/01/21 11:19	09/02/21 19:50	1
o-Terphenyl (Surr)	107		70 - 130			09/01/21 11:19	09/02/21 19:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.4		5.01	mg/Kg			09/01/21 19:29	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-156

Lab Sample ID: 880-5664-40

Date Collected: 08/26/21 14:00

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:06	09/02/21 23:10	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:06	09/02/21 23:10	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:06	09/02/21 23:10	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/01/21 09:06	09/02/21 23:10	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:06	09/02/21 23:10	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/01/21 09:06	09/02/21 23:10	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/01/21 09:06	09/02/21 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/01/21 09:06	09/02/21 23:10	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/01/21 09:06	09/02/21 23:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 20:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 20:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 20:12	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	09/01/21 11:19	09/02/21 20:12	1
o-Terphenyl (Surr)	104		70 - 130	09/01/21 11:19	09/02/21 20:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		5.05	mg/Kg			09/01/21 19:35	1

Client Sample ID: C-157

Lab Sample ID: 880-5664-41

Date Collected: 08/26/21 14:01

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200	mg/Kg		09/01/21 09:14	09/02/21 12:31	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		09/01/21 09:14	09/02/21 12:31	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/Kg		09/01/21 09:14	09/02/21 12:31	1
m,p-Xylenes	<0.00399	U F1	0.00399	mg/Kg		09/01/21 09:14	09/02/21 12:31	1
o-Xylene	<0.00200	U F1	0.00200	mg/Kg		09/01/21 09:14	09/02/21 12:31	1
Xylenes, Total	<0.00399	U F1	0.00399	mg/Kg		09/01/21 09:14	09/02/21 12:31	1
Total BTEX	<0.00399	U F1	0.00399	mg/Kg		09/01/21 09:14	09/02/21 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	09/01/21 09:14	09/02/21 12:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/01/21 09:14	09/02/21 12:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0	mg/Kg		09/01/21 13:31	09/02/21 12:12	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-157

Lab Sample ID: 880-5664-41

Date Collected: 08/26/21 14:01

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0	mg/Kg		09/01/21 13:31	09/02/21 12:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 12:12	1
Total TPH	<50.0	U F1	50.0	mg/Kg		09/01/21 13:31	09/02/21 12:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			09/01/21 13:31	09/02/21 12:12	1
o-Terphenyl (Surr)	81		70 - 130			09/01/21 13:31	09/02/21 12:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.3		4.97	mg/Kg			09/01/21 19:40	1

Client Sample ID: C-158

Lab Sample ID: 880-5664-42

Date Collected: 08/26/21 14:02

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 12:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 12:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 12:52	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 12:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 12:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 12:52	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 12:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			09/01/21 09:14	09/02/21 12:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130			09/01/21 09:14	09/02/21 12:52	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 13:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 13:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 13:16	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			09/01/21 13:31	09/02/21 13:16	1
o-Terphenyl (Surr)	94		70 - 130			09/01/21 13:31	09/02/21 13:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.6		4.95	mg/Kg			09/01/21 23:00	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-159

Lab Sample ID: 880-5664-43

Date Collected: 08/26/21 14:03

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 13:13	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 13:13	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 13:13	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/01/21 09:14	09/02/21 13:13	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 13:13	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/01/21 09:14	09/02/21 13:13	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/01/21 09:14	09/02/21 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/01/21 09:14	09/02/21 13:13	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/01/21 09:14	09/02/21 13:13	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 13:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 13:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 13:37	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130	09/01/21 13:31	09/02/21 13:37	1
o-Terphenyl (Surr)	89		70 - 130	09/01/21 13:31	09/02/21 13:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.4		5.04	mg/Kg			09/01/21 23:12	1

Client Sample ID: C-160

Lab Sample ID: 880-5664-44

Date Collected: 08/26/21 14:04

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:14	09/02/21 13:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:14	09/02/21 13:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:14	09/02/21 13:33	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 09:14	09/02/21 13:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:14	09/02/21 13:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 09:14	09/02/21 13:33	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 09:14	09/02/21 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	09/01/21 09:14	09/02/21 13:33	1
1,4-Difluorobenzene (Surr)	111		70 - 130	09/01/21 09:14	09/02/21 13:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 13:59	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-160

Lab Sample ID: 880-5664-44

Date Collected: 08/26/21 14:04

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 13:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 13:59	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 13:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			09/01/21 13:31	09/02/21 13:59	1
o-Terphenyl (Surr)	92		70 - 130			09/01/21 13:31	09/02/21 13:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.4		4.97	mg/Kg			09/01/21 23:23	1

Client Sample ID: C-161

Lab Sample ID: 880-5664-45

Date Collected: 08/26/21 14:05

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 13:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 13:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 13:54	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/01/21 09:14	09/02/21 13:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 13:54	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/01/21 09:14	09/02/21 13:54	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/01/21 09:14	09/02/21 13:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			09/01/21 09:14	09/02/21 13:54	1
1,4-Difluorobenzene (Surr)	87		70 - 130			09/01/21 09:14	09/02/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 14:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 14:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 14:20	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 14:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			09/01/21 13:31	09/02/21 14:20	1
o-Terphenyl (Surr)	85		70 - 130			09/01/21 13:31	09/02/21 14:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.1		4.96	mg/Kg			09/01/21 23:34	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-162

Lab Sample ID: 880-5664-46

Date Collected: 08/26/21 14:06

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:14	09/02/21 14:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:14	09/02/21 14:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:14	09/02/21 14:15	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 09:14	09/02/21 14:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:14	09/02/21 14:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 09:14	09/02/21 14:15	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 09:14	09/02/21 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/01/21 09:14	09/02/21 14:15	1
1,4-Difluorobenzene (Surr)	117		70 - 130	09/01/21 09:14	09/02/21 14:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 14:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 14:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 14:42	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130	09/01/21 13:31	09/02/21 14:42	1
o-Terphenyl (Surr)	88		70 - 130	09/01/21 13:31	09/02/21 14:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1270		4.95	mg/Kg			09/01/21 23:45	1

Client Sample ID: C-163

Lab Sample ID: 880-5664-47

Date Collected: 08/26/21 14:07

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 14:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 14:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 14:36	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 14:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 14:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 14:36	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/01/21 09:14	09/02/21 14:36	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/01/21 09:14	09/02/21 14:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 15:04	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-163

Lab Sample ID: 880-5664-47

Date Collected: 08/26/21 14:07

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 15:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 15:04	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 15:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			09/01/21 13:31	09/02/21 15:04	1
o-Terphenyl (Surr)	82		70 - 130			09/01/21 13:31	09/02/21 15:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.2		5.00	mg/Kg			09/01/21 23:56	1

Client Sample ID: C-164

Lab Sample ID: 880-5664-48

Date Collected: 08/26/21 14:08

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 14:56	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 14:56	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 14:56	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/01/21 09:14	09/02/21 14:56	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 14:56	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/01/21 09:14	09/02/21 14:56	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/01/21 09:14	09/02/21 14:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			09/01/21 09:14	09/02/21 14:56	1
1,4-Difluorobenzene (Surr)	84		70 - 130			09/01/21 09:14	09/02/21 14:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 15:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 15:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 15:25	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 15:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			09/01/21 13:31	09/02/21 15:25	1
o-Terphenyl (Surr)	83		70 - 130			09/01/21 13:31	09/02/21 15:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.5		5.01	mg/Kg			09/02/21 00:07	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-165

Lab Sample ID: 880-5664-49

Date Collected: 08/26/21 14:09

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 15:17	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 15:17	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 15:17	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/01/21 09:14	09/02/21 15:17	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 15:17	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/01/21 09:14	09/02/21 15:17	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		09/01/21 09:14	09/02/21 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/01/21 09:14	09/02/21 15:17	1
1,4-Difluorobenzene (Surr)	117		70 - 130	09/01/21 09:14	09/02/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 15:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 15:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 15:47	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130	09/01/21 13:31	09/02/21 15:47	1
o-Terphenyl (Surr)	79		70 - 130	09/01/21 13:31	09/02/21 15:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.5	F1	4.95	mg/Kg			09/02/21 17:51	1

Client Sample ID: C-166

Lab Sample ID: 880-5664-50

Date Collected: 08/26/21 14:10

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 15:38	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 15:38	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 15:38	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/01/21 09:14	09/02/21 15:38	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 15:38	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/01/21 09:14	09/02/21 15:38	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		09/01/21 09:14	09/02/21 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	09/01/21 09:14	09/02/21 15:38	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/01/21 09:14	09/02/21 15:38	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 16:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-166

Lab Sample ID: 880-5664-50

Date Collected: 08/26/21 14:10

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 16:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 16:08	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 16:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			09/01/21 13:31	09/02/21 16:08	1
o-Terphenyl (Surr)	80		70 - 130			09/01/21 13:31	09/02/21 16:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.0		4.99	mg/Kg			09/02/21 18:08	1

Client Sample ID: C-167

Lab Sample ID: 880-5664-51

Date Collected: 08/26/21 14:11

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:14	09/02/21 17:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:14	09/02/21 17:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:14	09/02/21 17:00	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 09:14	09/02/21 17:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:14	09/02/21 17:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 09:14	09/02/21 17:00	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 09:14	09/02/21 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			09/01/21 09:14	09/02/21 17:00	1
1,4-Difluorobenzene (Surr)	109		70 - 130			09/01/21 09:14	09/02/21 17:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 16:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 16:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 16:54	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 16:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			09/01/21 13:31	09/02/21 16:54	1
o-Terphenyl (Surr)	91		70 - 130			09/01/21 13:31	09/02/21 16:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		5.01	mg/Kg			09/02/21 18:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-168

Lab Sample ID: 880-5664-52

Date Collected: 08/26/21 14:12

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:14	09/02/21 17:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:14	09/02/21 17:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:14	09/02/21 17:20	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 09:14	09/02/21 17:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:14	09/02/21 17:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 09:14	09/02/21 17:20	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 09:14	09/02/21 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	09/01/21 09:14	09/02/21 17:20	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/01/21 09:14	09/02/21 17:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 17:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 17:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 17:15	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130	09/01/21 13:31	09/02/21 17:15	1
o-Terphenyl (Surr)	87		70 - 130	09/01/21 13:31	09/02/21 17:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.5		4.98	mg/Kg			09/02/21 18:19	1

Client Sample ID: C-169

Lab Sample ID: 880-5664-53

Date Collected: 08/26/21 14:13

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 17:41	1
Toluene	0.00252		0.00200	mg/Kg		09/01/21 09:14	09/02/21 17:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 17:41	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 17:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 17:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 17:41	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/01/21 09:14	09/02/21 17:41	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/01/21 09:14	09/02/21 17:41	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 17:37	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-169

Lab Sample ID: 880-5664-53

Date Collected: 08/26/21 14:13

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 17:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 17:37	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			09/01/21 13:31	09/02/21 17:37	1
o-Terphenyl (Surr)	80		70 - 130			09/01/21 13:31	09/02/21 17:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.1		4.97	mg/Kg			09/02/21 18:25	1

Client Sample ID: C-170

Lab Sample ID: 880-5664-54

Date Collected: 08/26/21 14:14

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:14	09/02/21 18:02	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:14	09/02/21 18:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:14	09/02/21 18:02	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 09:14	09/02/21 18:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:14	09/02/21 18:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 09:14	09/02/21 18:02	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 09:14	09/02/21 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			09/01/21 09:14	09/02/21 18:02	1
1,4-Difluorobenzene (Surr)	126		70 - 130			09/01/21 09:14	09/02/21 18:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 17:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 17:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 17:58	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			09/01/21 13:31	09/02/21 17:58	1
o-Terphenyl (Surr)	88		70 - 130			09/01/21 13:31	09/02/21 17:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		4.95	mg/Kg			09/02/21 18:42	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-171

Lab Sample ID: 880-5664-55

Date Collected: 08/26/21 14:15

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:14	09/02/21 18:23	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:14	09/02/21 18:23	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:14	09/02/21 18:23	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 09:14	09/02/21 18:23	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:14	09/02/21 18:23	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 09:14	09/02/21 18:23	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 09:14	09/02/21 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	09/01/21 09:14	09/02/21 18:23	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/01/21 09:14	09/02/21 18:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 18:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 18:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 18:20	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	09/01/21 13:31	09/02/21 18:20	1
o-Terphenyl (Surr)	85		70 - 130	09/01/21 13:31	09/02/21 18:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.8		4.97	mg/Kg			09/02/21 18:48	1

Client Sample ID: C-172

Lab Sample ID: 880-5664-56

Date Collected: 08/26/21 14:16

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 18:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 18:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 18:43	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 18:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 18:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 18:43	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/01/21 09:14	09/02/21 18:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/01/21 09:14	09/02/21 18:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 18:41	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-172

Lab Sample ID: 880-5664-56

Date Collected: 08/26/21 14:16

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 18:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 18:41	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:31	09/02/21 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			09/01/21 13:31	09/02/21 18:41	1
o-Terphenyl (Surr)	96		70 - 130			09/01/21 13:31	09/02/21 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		4.96	mg/Kg			09/02/21 18:53	1

Client Sample ID: C-173

Lab Sample ID: 880-5664-57

Date Collected: 08/26/21 14:17

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 19:04	1
Toluene	0.00375		0.00198	mg/Kg		09/01/21 09:14	09/02/21 19:04	1
Ethylbenzene	0.00473		0.00198	mg/Kg		09/01/21 09:14	09/02/21 19:04	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/01/21 09:14	09/02/21 19:04	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:14	09/02/21 19:04	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/01/21 09:14	09/02/21 19:04	1
Total BTEX	0.00848		0.00396	mg/Kg		09/01/21 09:14	09/02/21 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			09/01/21 09:14	09/02/21 19:04	1
1,4-Difluorobenzene (Surr)	98		70 - 130			09/01/21 09:14	09/02/21 19:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 19:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 19:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 19:03	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			09/01/21 13:31	09/02/21 19:03	1
o-Terphenyl (Surr)	83		70 - 130			09/01/21 13:31	09/02/21 19:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.5		4.95	mg/Kg			09/02/21 18:59	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-174

Lab Sample ID: 880-5664-58

Date Collected: 08/26/21 14:18

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 19:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 19:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 19:25	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/01/21 09:14	09/02/21 19:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 19:25	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/01/21 09:14	09/02/21 19:25	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/01/21 09:14	09/02/21 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/01/21 09:14	09/02/21 19:25	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/01/21 09:14	09/02/21 19:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 19:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 19:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 19:25	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 13:31	09/02/21 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	09/01/21 13:31	09/02/21 19:25	1
o-Terphenyl (Surr)	91		70 - 130	09/01/21 13:31	09/02/21 19:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.8		5.04	mg/Kg			09/02/21 19:05	1

Client Sample ID: C-175

Lab Sample ID: 880-5664-59

Date Collected: 08/26/21 14:19

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 19:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 19:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 19:46	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/01/21 09:14	09/02/21 19:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 19:46	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/01/21 09:14	09/02/21 19:46	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/01/21 09:14	09/02/21 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/01/21 09:14	09/02/21 19:46	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/01/21 09:14	09/02/21 19:46	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 19:46	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-175

Lab Sample ID: 880-5664-59

Date Collected: 08/26/21 14:19

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 19:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 19:46	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			09/01/21 13:31	09/02/21 19:46	1
o-Terphenyl (Surr)	86		70 - 130			09/01/21 13:31	09/02/21 19:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	207		4.98	mg/Kg			09/02/21 19:10	1

Client Sample ID: C-176

Lab Sample ID: 880-5664-60

Date Collected: 08/26/21 14:20

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:14	09/02/21 20:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:14	09/02/21 20:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:14	09/02/21 20:06	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/01/21 09:14	09/02/21 20:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:14	09/02/21 20:06	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/01/21 09:14	09/02/21 20:06	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/01/21 09:14	09/02/21 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			09/01/21 09:14	09/02/21 20:06	1
1,4-Difluorobenzene (Surr)	124		70 - 130			09/01/21 09:14	09/02/21 20:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 20:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 20:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 20:08	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			09/01/21 13:31	09/02/21 20:08	1
o-Terphenyl (Surr)	85		70 - 130			09/01/21 13:31	09/02/21 20:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.7		5.01	mg/Kg			09/02/21 19:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-177

Lab Sample ID: 880-5664-61

Date Collected: 08/26/21 14:21

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199	mg/Kg		09/01/21 09:18	09/02/21 14:27	1
Toluene	<0.00199	U F1 F2	0.00199	mg/Kg		09/01/21 09:18	09/02/21 14:27	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		09/01/21 09:18	09/02/21 14:27	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		09/01/21 09:18	09/02/21 14:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:18	09/02/21 14:27	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		09/01/21 09:18	09/02/21 14:27	1
Total BTEX	<0.00398	U F1 F2	0.00398	mg/Kg		09/01/21 09:18	09/02/21 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/01/21 09:18	09/02/21 14:27	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/01/21 09:18	09/02/21 14:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 12:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	50.0	mg/Kg		09/01/21 13:51	09/02/21 12:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 12:12	1
Total TPH	<50.0	U F2	50.0	mg/Kg		09/01/21 13:51	09/02/21 12:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130	09/01/21 13:51	09/02/21 12:12	1
o-Terphenyl (Surr)	79		70 - 130	09/01/21 13:51	09/02/21 12:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.4		4.98	mg/Kg			09/02/21 19:33	1

Client Sample ID: C-178

Lab Sample ID: 880-5664-62

Date Collected: 08/26/21 14:22

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:18	09/02/21 14:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:18	09/02/21 14:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:18	09/02/21 14:48	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/01/21 09:18	09/02/21 14:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:18	09/02/21 14:48	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/01/21 09:18	09/02/21 14:48	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/01/21 09:18	09/02/21 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	09/01/21 09:18	09/02/21 14:48	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/01/21 09:18	09/02/21 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 13:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-178

Lab Sample ID: 880-5664-62

Date Collected: 08/26/21 14:22

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 13:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 13:16	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			09/01/21 13:51	09/02/21 13:16	1
o-Terphenyl (Surr)	91		70 - 130			09/01/21 13:51	09/02/21 13:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.9		4.95	mg/Kg			09/02/21 19:50	1

Client Sample ID: C-179

Lab Sample ID: 880-5664-63

Date Collected: 08/26/21 14:23

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 15:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 15:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 15:08	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 15:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 15:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 15:08	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			09/01/21 09:18	09/02/21 15:08	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/01/21 09:18	09/02/21 15:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 13:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 13:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 13:37	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 13:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			09/01/21 13:51	09/02/21 13:37	1
o-Terphenyl (Surr)	91		70 - 130			09/01/21 13:51	09/02/21 13:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.6		4.95	mg/Kg			09/02/21 19:56	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-180

Lab Sample ID: 880-5664-64

Date Collected: 08/26/21 14:24

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 15:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 15:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 15:29	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 15:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 15:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 15:29	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	09/01/21 09:18	09/02/21 15:29	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/01/21 09:18	09/02/21 15:29	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 13:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 13:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 13:59	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	09/01/21 13:51	09/02/21 13:59	1
o-Terphenyl (Surr)	106		70 - 130	09/01/21 13:51	09/02/21 13:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.2		5.03	mg/Kg			09/02/21 20:01	1

Client Sample ID: C-181

Lab Sample ID: 880-5664-65

Date Collected: 08/26/21 14:25

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:18	09/02/21 15:49	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:18	09/02/21 15:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:18	09/02/21 15:49	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/01/21 09:18	09/02/21 15:49	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:18	09/02/21 15:49	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/01/21 09:18	09/02/21 15:49	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/01/21 09:18	09/02/21 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/01/21 09:18	09/02/21 15:49	1
1,4-Difluorobenzene (Surr)	110		70 - 130	09/01/21 09:18	09/02/21 15:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 14:20	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-181

Lab Sample ID: 880-5664-65

Date Collected: 08/26/21 14:25

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 14:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 14:20	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 14:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			09/01/21 13:51	09/02/21 14:20	1
o-Terphenyl (Surr)	86		70 - 130			09/01/21 13:51	09/02/21 14:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.04	mg/Kg			09/02/21 20:07	1

Client Sample ID: C-182

Lab Sample ID: 880-5664-66

Date Collected: 08/26/21 14:26

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:18	09/02/21 16:09	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:18	09/02/21 16:09	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:18	09/02/21 16:09	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/01/21 09:18	09/02/21 16:09	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:18	09/02/21 16:09	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/01/21 09:18	09/02/21 16:09	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/01/21 09:18	09/02/21 16:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130			09/01/21 09:18	09/02/21 16:09	1
1,4-Difluorobenzene (Surr)	98		70 - 130			09/01/21 09:18	09/02/21 16:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 14:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 14:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 14:42	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 14:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/01/21 13:51	09/02/21 14:42	1
o-Terphenyl (Surr)	114		70 - 130			09/01/21 13:51	09/02/21 14:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		5.04	mg/Kg			09/02/21 20:13	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-183

Lab Sample ID: 880-5664-67

Date Collected: 08/26/21 14:27

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 16:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 16:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 16:30	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/01/21 09:18	09/02/21 16:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 16:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/01/21 09:18	09/02/21 16:30	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/01/21 09:18	09/02/21 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	09/01/21 09:18	09/02/21 16:30	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/01/21 09:18	09/02/21 16:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 15:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 15:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 15:04	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	66	S1-	70 - 130	09/01/21 13:51	09/02/21 15:04	1
o-Terphenyl (Surr)	73		70 - 130	09/01/21 13:51	09/02/21 15:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	746		5.02	mg/Kg			09/02/21 20:18	1

Client Sample ID: C-184

Lab Sample ID: 880-5664-68

Date Collected: 08/26/21 14:28

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 16:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 16:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 16:50	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/01/21 09:18	09/02/21 16:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 16:50	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/01/21 09:18	09/02/21 16:50	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/01/21 09:18	09/02/21 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	09/01/21 09:18	09/02/21 16:50	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/01/21 09:18	09/02/21 16:50	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 15:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-184

Lab Sample ID: 880-5664-68

Date Collected: 08/26/21 14:28

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 15:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 15:25	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 15:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	65	S1-	70 - 130			09/01/21 13:51	09/02/21 15:25	1
o-Terphenyl (Surr)	68	S1-	70 - 130			09/01/21 13:51	09/02/21 15:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.3		5.00	mg/Kg			09/02/21 20:24	1

Client Sample ID: C-185

Lab Sample ID: 880-5664-69

Date Collected: 08/26/21 14:29

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:18	09/02/21 17:11	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:18	09/02/21 17:11	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:18	09/02/21 17:11	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 09:18	09/02/21 17:11	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:18	09/02/21 17:11	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 09:18	09/02/21 17:11	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 09:18	09/02/21 17:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			09/01/21 09:18	09/02/21 17:11	1
1,4-Difluorobenzene (Surr)	97		70 - 130			09/01/21 09:18	09/02/21 17:11	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 15:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 15:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 15:47	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 15:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			09/01/21 13:51	09/02/21 15:47	1
o-Terphenyl (Surr)	81		70 - 130			09/01/21 13:51	09/02/21 15:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.8		4.97	mg/Kg			09/02/21 02:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-186

Lab Sample ID: 880-5664-70

Date Collected: 08/26/21 14:30

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:18	09/02/21 17:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:18	09/02/21 17:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:18	09/02/21 17:31	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 09:18	09/02/21 17:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:18	09/02/21 17:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 09:18	09/02/21 17:31	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 09:18	09/02/21 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	09/01/21 09:18	09/02/21 17:31	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/01/21 09:18	09/02/21 17:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 16:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 16:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 16:08	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130	09/01/21 13:51	09/02/21 16:08	1
o-Terphenyl (Surr)	97		70 - 130	09/01/21 13:51	09/02/21 16:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.5		4.95	mg/Kg			09/02/21 02:33	1

Client Sample ID: C-187

Lab Sample ID: 880-5664-71

Date Collected: 08/26/21 14:31

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:18	09/02/21 19:21	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:18	09/02/21 19:21	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:18	09/02/21 19:21	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 09:18	09/02/21 19:21	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:18	09/02/21 19:21	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 09:18	09/02/21 19:21	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 09:18	09/02/21 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/01/21 09:18	09/02/21 19:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/01/21 09:18	09/02/21 19:21	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 16:54	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-187

Lab Sample ID: 880-5664-71

Date Collected: 08/26/21 14:31

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 16:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 16:54	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 16:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			09/01/21 13:51	09/02/21 16:54	1
o-Terphenyl (Surr)	95		70 - 130			09/01/21 13:51	09/02/21 16:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	261		5.01	mg/Kg			09/02/21 02:44	1

Client Sample ID: C-188

Lab Sample ID: 880-5664-72

Date Collected: 08/26/21 14:32

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 19:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 19:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 19:42	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 19:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 19:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 19:42	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 19:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			09/01/21 09:18	09/02/21 19:42	1
1,4-Difluorobenzene (Surr)	79		70 - 130			09/01/21 09:18	09/02/21 19:42	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 17:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 17:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 17:15	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 17:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			09/01/21 13:51	09/02/21 17:15	1
o-Terphenyl (Surr)	95		70 - 130			09/01/21 13:51	09/02/21 17:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.1		4.98	mg/Kg			09/02/21 03:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-189

Lab Sample ID: 880-5664-73

Date Collected: 08/26/21 14:33

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 20:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 20:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 20:02	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/01/21 09:18	09/02/21 20:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 20:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/01/21 09:18	09/02/21 20:02	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/01/21 09:18	09/02/21 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	09/01/21 09:18	09/02/21 20:02	1
1,4-Difluorobenzene (Surr)	83		70 - 130	09/01/21 09:18	09/02/21 20:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 17:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 17:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 17:37	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	09/01/21 13:51	09/02/21 17:37	1
o-Terphenyl (Surr)	92		70 - 130	09/01/21 13:51	09/02/21 17:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.95	mg/Kg			09/02/21 03:28	1

Client Sample ID: C-190

Lab Sample ID: 880-5664-74

Date Collected: 08/26/21 14:34

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 20:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 20:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 20:22	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/01/21 09:18	09/02/21 20:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 20:22	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/01/21 09:18	09/02/21 20:22	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/01/21 09:18	09/02/21 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	09/01/21 09:18	09/02/21 20:22	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/01/21 09:18	09/02/21 20:22	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 17:58	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-190

Lab Sample ID: 880-5664-74

Date Collected: 08/26/21 14:34

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 17:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 17:58	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			09/01/21 13:51	09/02/21 17:58	1
o-Terphenyl (Surr)	99		70 - 130			09/01/21 13:51	09/02/21 17:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.7		5.00	mg/Kg			09/02/21 03:39	1

Client Sample ID: C-191

Lab Sample ID: 880-5664-75

Date Collected: 08/26/21 14:35

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:18	09/02/21 20:43	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:18	09/02/21 20:43	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:18	09/02/21 20:43	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/01/21 09:18	09/02/21 20:43	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:18	09/02/21 20:43	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/01/21 09:18	09/02/21 20:43	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/01/21 09:18	09/02/21 20:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			09/01/21 09:18	09/02/21 20:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130			09/01/21 09:18	09/02/21 20:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 18:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 18:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 18:20	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	67	S1-	70 - 130			09/01/21 13:51	09/02/21 18:20	1
o-Terphenyl (Surr)	69	S1-	70 - 130			09/01/21 13:51	09/02/21 18:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		5.00	mg/Kg			09/02/21 03:51	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-192

Lab Sample ID: 880-5664-76

Date Collected: 08/26/21 14:36

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 21:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 21:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 21:03	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/01/21 09:18	09/02/21 21:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 21:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/01/21 09:18	09/02/21 21:03	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/01/21 09:18	09/02/21 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/01/21 09:18	09/02/21 21:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/01/21 09:18	09/02/21 21:03	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 18:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 18:41	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 13:51	09/02/21 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	09/01/21 13:51	09/02/21 18:41	1
o-Terphenyl (Surr)	105		70 - 130	09/01/21 13:51	09/02/21 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	215		4.98	mg/Kg			09/02/21 04:02	1

Client Sample ID: C-193

Lab Sample ID: 880-5664-77

Date Collected: 08/26/21 14:37

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:18	09/02/21 21:24	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:18	09/02/21 21:24	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:18	09/02/21 21:24	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/01/21 09:18	09/02/21 21:24	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:18	09/02/21 21:24	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/01/21 09:18	09/02/21 21:24	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		09/01/21 09:18	09/02/21 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	09/01/21 09:18	09/02/21 21:24	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/01/21 09:18	09/02/21 21:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 19:03	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-193

Lab Sample ID: 880-5664-77

Date Collected: 08/26/21 14:37

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 19:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 19:03	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	68	S1-	70 - 130			09/01/21 13:51	09/02/21 19:03	1
o-Terphenyl (Surr)	62	S1-	70 - 130			09/01/21 13:51	09/02/21 19:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.7		4.95	mg/Kg			09/02/21 04:13	1

Client Sample ID: C-194

Lab Sample ID: 880-5664-78

Date Collected: 08/26/21 14:38

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 21:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 21:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 21:44	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 21:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 21:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 21:44	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 21:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			09/01/21 09:18	09/02/21 21:44	1
1,4-Difluorobenzene (Surr)	105		70 - 130			09/01/21 09:18	09/02/21 21:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 19:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 19:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 19:25	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 13:51	09/02/21 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130			09/01/21 13:51	09/02/21 19:25	1
o-Terphenyl (Surr)	71		70 - 130			09/01/21 13:51	09/02/21 19:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		5.04	mg/Kg			09/02/21 04:46	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-195

Lab Sample ID: 880-5664-79

Date Collected: 08/26/21 14:39

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:18	09/02/21 22:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:18	09/02/21 22:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:18	09/02/21 22:04	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/01/21 09:18	09/02/21 22:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/21 09:18	09/02/21 22:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/21 09:18	09/02/21 22:04	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/01/21 09:18	09/02/21 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	09/01/21 09:18	09/02/21 22:04	1
1,4-Difluorobenzene (Surr)	91		70 - 130	09/01/21 09:18	09/02/21 22:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 19:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 19:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 19:46	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130	09/01/21 13:51	09/02/21 19:46	1
o-Terphenyl (Surr)	94		70 - 130	09/01/21 13:51	09/02/21 19:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222		5.01	mg/Kg			09/02/21 04:58	1

Client Sample ID: C-196

Lab Sample ID: 880-5664-80

Date Collected: 08/26/21 14:40

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 22:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 22:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 22:25	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/01/21 09:18	09/02/21 22:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 22:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/01/21 09:18	09/02/21 22:25	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/01/21 09:18	09/02/21 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	09/01/21 09:18	09/02/21 22:25	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/01/21 09:18	09/02/21 22:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 20:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-196

Lab Sample ID: 880-5664-80

Date Collected: 08/26/21 14:40

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 20:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 20:08	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	66	S1-	70 - 130			09/01/21 13:51	09/02/21 20:08	1
o-Terphenyl (Surr)	65	S1-	70 - 130			09/01/21 13:51	09/02/21 20:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.7		4.97	mg/Kg			09/02/21 05:31	1

Client Sample ID: C-197

Lab Sample ID: 880-5664-81

Date Collected: 08/26/21 14:41

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:00	09/01/21 19:08	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:00	09/01/21 19:08	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:00	09/01/21 19:08	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/01/21 09:00	09/01/21 19:08	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/21 09:00	09/01/21 19:08	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/01/21 09:00	09/01/21 19:08	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/01/21 09:00	09/01/21 19:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			09/01/21 09:00	09/01/21 19:08	1
1,4-Difluorobenzene (Surr)	88		70 - 130			09/01/21 09:00	09/01/21 19:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0	mg/Kg		09/01/21 15:12	09/01/21 22:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0	mg/Kg		09/01/21 15:12	09/01/21 22:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 15:12	09/01/21 22:56	1
Total TPH	<50.0	U F1	50.0	mg/Kg		09/01/21 15:12	09/01/21 22:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	70		70 - 130			09/01/21 15:12	09/01/21 22:56	1
o-Terphenyl (Surr)	70		70 - 130			09/01/21 15:12	09/01/21 22:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.8		4.95	mg/Kg			09/02/21 05:42	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-198

Lab Sample ID: 880-5664-82

Date Collected: 08/26/21 14:42

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:00	09/01/21 19:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:00	09/01/21 19:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:00	09/01/21 19:29	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:00	09/01/21 19:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:00	09/01/21 19:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:00	09/01/21 19:29	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:00	09/01/21 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	09/01/21 09:00	09/01/21 19:29	1
1,4-Difluorobenzene (Surr)	72		70 - 130	09/01/21 09:00	09/01/21 19:29	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 15:12	09/01/21 23:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 15:12	09/01/21 23:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 15:12	09/01/21 23:59	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 15:12	09/01/21 23:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130	09/01/21 15:12	09/01/21 23:59	1
o-Terphenyl (Surr)	72		70 - 130	09/01/21 15:12	09/01/21 23:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.1		4.98	mg/Kg			09/02/21 05:53	1

Client Sample ID: C-199

Lab Sample ID: 880-5664-83

Date Collected: 08/26/21 14:43

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:00	09/01/21 19:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:00	09/01/21 19:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:00	09/01/21 19:49	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/01/21 09:00	09/01/21 19:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:00	09/01/21 19:49	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/01/21 09:00	09/01/21 19:49	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/01/21 09:00	09/01/21 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/01/21 09:00	09/01/21 19:49	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/01/21 09:00	09/01/21 19:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 15:12	09/02/21 00:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-199

Lab Sample ID: 880-5664-83

Date Collected: 08/26/21 14:43

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 15:12	09/02/21 00:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 15:12	09/02/21 00:19	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 15:12	09/02/21 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130			09/01/21 15:12	09/02/21 00:19	1
o-Terphenyl (Surr)	75		70 - 130			09/01/21 15:12	09/02/21 00:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		4.96	mg/Kg			09/02/21 06:05	1

Client Sample ID: C-200

Lab Sample ID: 880-5664-84

Date Collected: 08/26/21 14:44

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00437		0.00202	mg/Kg		09/01/21 09:00	09/01/21 20:10	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:00	09/01/21 20:10	1
Ethylbenzene	0.00221		0.00202	mg/Kg		09/01/21 09:00	09/01/21 20:10	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/01/21 09:00	09/01/21 20:10	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/21 09:00	09/01/21 20:10	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/01/21 09:00	09/01/21 20:10	1
Total BTEX	0.00658		0.00404	mg/Kg		09/01/21 09:00	09/01/21 20:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			09/01/21 09:00	09/01/21 20:10	1
1,4-Difluorobenzene (Surr)	80		70 - 130			09/01/21 09:00	09/01/21 20:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/21 15:12	09/02/21 00:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/21 15:12	09/02/21 00:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/21 15:12	09/02/21 00:40	1
Total TPH	<49.9	U	49.9	mg/Kg		09/01/21 15:12	09/02/21 00:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130			09/01/21 15:12	09/02/21 00:40	1
o-Terphenyl (Surr)	73		70 - 130			09/01/21 15:12	09/02/21 00:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5330		24.8	mg/Kg			09/02/21 06:16	5

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-201

Lab Sample ID: 880-5664-85

Date Collected: 08/26/21 14:45

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:00	09/01/21 20:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:00	09/01/21 20:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:00	09/01/21 20:30	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 09:00	09/01/21 20:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:00	09/01/21 20:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 09:00	09/01/21 20:30	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 09:00	09/01/21 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/01/21 09:00	09/01/21 20:30	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/01/21 09:00	09/01/21 20:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/01/21 15:12	09/02/21 01:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/01/21 15:12	09/02/21 01:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/21 15:12	09/02/21 01:01	1
Total TPH	<49.8	U	49.8	mg/Kg		09/01/21 15:12	09/02/21 01:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	70		70 - 130	09/01/21 15:12	09/02/21 01:01	1
o-Terphenyl (Surr)	74		70 - 130	09/01/21 15:12	09/02/21 01:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4900		25.0	mg/Kg			09/02/21 06:27	5

Client Sample ID: C-202

Lab Sample ID: 880-5664-86

Date Collected: 08/26/21 14:46

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:00	09/01/21 20:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:00	09/01/21 20:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:00	09/01/21 20:51	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/01/21 09:00	09/01/21 20:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/21 09:00	09/01/21 20:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/21 09:00	09/01/21 20:51	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/01/21 09:00	09/01/21 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/01/21 09:00	09/01/21 20:51	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/01/21 09:00	09/01/21 20:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 10:35	09/01/21 20:51	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-202

Lab Sample ID: 880-5664-86

Date Collected: 08/26/21 14:46

Matrix: Solid

Date Received: 08/31/21 14:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 10:35	09/01/21 20:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 10:35	09/01/21 20:51	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 10:35	09/01/21 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130	09/01/21 10:35	09/01/21 20:51	1
o-Terphenyl (Surr)	88		70 - 130	09/01/21 10:35	09/01/21 20:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.9		5.04	mg/Kg			09/02/21 06:38	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-5629-A-1-D MS	Matrix Spike	96	96
880-5629-A-1-E MSD	Matrix Spike Duplicate	114	68 S1-
880-5664-1	C-117	109	103
880-5664-1 MS	C-117	109	89
880-5664-1 MSD	C-117	132 S1+	95
880-5664-2	C-118	161 S1+	91
880-5664-3	C-119	121	100
880-5664-4	C-120	132 S1+	99
880-5664-5	C-121	138 S1+	109
880-5664-6	C-122	138 S1+	94
880-5664-7	C-123	110	105
880-5664-8	C-124	128	101
880-5664-9	C-125	144 S1+	102
880-5664-10	C-126	100	74
880-5664-11	C-127	117	97
880-5664-12	C-128	86	76
880-5664-13	C-129	87	75
880-5664-14	C-130	116	93
880-5664-15	C-131	76	78
880-5664-16	C-132	112	94
880-5664-17	C-133	127	98
880-5664-18	C-134	90	74
880-5664-19	C-135	111	81
880-5664-20	C-136	137 S1+	95
880-5664-21	C-137	125	102
880-5664-21 MS	C-137	93	97
880-5664-21 MSD	C-137	169 S1+	100
880-5664-22	C-138	124	112
880-5664-23	C-139	175 S1+	92
880-5664-24	C-140	122	118
880-5664-25	C-141	133 S1+	120
880-5664-26	C-142	154 S1+	80
880-5664-27	C-143	117	102
880-5664-28	C-144	116	115
880-5664-29	C-145	122	114
880-5664-30	C-146	107	73
880-5664-31	C-147	136 S1+	101
880-5664-32	C-148	129	117
880-5664-33	C-149	205 S1+	79
880-5664-34	C-150	119	114
880-5664-35	C-151	141 S1+	96
880-5664-36	C-152	128	121
880-5664-37	C-153	119	110
880-5664-38	C-154	140 S1+	100
880-5664-39	C-155	117	102
880-5664-40	C-156	114	109
880-5664-41	C-157	78	97
880-5664-41 MS	C-157	104	104
880-5664-41 MSD	C-157	84	80

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-5664-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-5664-42	C-158	91	100
880-5664-43	C-159	101	109
880-5664-44	C-160	96	111
880-5664-45	C-161	95	87
880-5664-46	C-162	102	117
880-5664-47	C-163	93	96
880-5664-48	C-164	91	84
880-5664-49	C-165	110	117
880-5664-50	C-166	90	100
880-5664-51	C-167	94	109
880-5664-52	C-168	91	82
880-5664-53	C-169	98	106
880-5664-54	C-170	119	126
880-5664-55	C-171	91	86
880-5664-56	C-172	108	98
880-5664-57	C-173	110	98
880-5664-58	C-174	102	86
880-5664-59	C-175	103	107
880-5664-60	C-176	92	124
880-5664-61	C-177	104	105
880-5664-61 MS	C-177	128	80
880-5664-61 MSD	C-177	119	95
880-5664-62	C-178	134 S1+	100
880-5664-63	C-179	130	92
880-5664-64	C-180	134 S1+	99
880-5664-65	C-181	108	110
880-5664-66	C-182	148 S1+	98
880-5664-67	C-183	126	90
880-5664-68	C-184	131 S1+	94
880-5664-69	C-185	119	97
880-5664-70	C-186	141 S1+	95
880-5664-71	C-187	114	101
880-5664-72	C-188	131 S1+	79
880-5664-73	C-189	127	83
880-5664-74	C-190	133 S1+	93
880-5664-75	C-191	118	103
880-5664-76	C-192	117	100
880-5664-77	C-193	118	107
880-5664-78	C-194	119	105
880-5664-79	C-195	136 S1+	91
880-5664-80	C-196	118	96
880-5664-81	C-197	89	88
880-5664-82	C-198	97	72
880-5664-83	C-199	104	105
880-5664-84	C-200	103	80
880-5664-85	C-201	112	96
880-5664-86	C-202	108	92
880-5735-A-1-A MS	Matrix Spike	112	105
880-5735-A-1-B MSD	Matrix Spike Duplicate	116	104
LCS 880-7262/1-A	Lab Control Sample	104	77

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-5664-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-7365/1-A	Lab Control Sample	103	90
LCS 880-7367/1-A	Lab Control Sample	102	101
LCS 880-7381/1-A	Lab Control Sample	115	85
LCS 880-7382/1-A	Lab Control Sample	96	93
LCS 880-7447/1-A	Lab Control Sample	111	105
LCSD 880-7262/2-A	Lab Control Sample Dup	109	86
LCSD 880-7365/2-A	Lab Control Sample Dup	105	96
LCSD 880-7367/2-A	Lab Control Sample Dup	110	108
LCSD 880-7381/2-A	Lab Control Sample Dup	99	96
LCSD 880-7382/2-A	Lab Control Sample Dup	105	101
LCSD 880-7447/2-A	Lab Control Sample Dup	113	104
MB 880-7262/5-A	Method Blank	105	100
MB 880-7365/5-A	Method Blank	123	105
MB 880-7367/5-A	Method Blank	79	104
MB 880-7381/5-A	Method Blank	109	96
MB 880-7382/5-A	Method Blank	125	110
MB 880-7447/5-A	Method Blank	93	99
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-5664-1	C-117	98	110
880-5664-1 MS	C-117	108	117
880-5664-1 MSD	C-117	95	101
880-5664-2	C-118	95	100
880-5664-3	C-119	92	93
880-5664-4	C-120	93	96
880-5664-5	C-121	100	105
880-5664-6	C-122	95	100
880-5664-7	C-123	95	99
880-5664-8	C-124	96	100
880-5664-9	C-125	96	99
880-5664-10	C-126	110	113
880-5664-11	C-127	91	89
880-5664-12	C-128	96	94
880-5664-13	C-129	100	102
880-5664-14	C-130	95	97
880-5664-15	C-131	92	91
880-5664-16	C-132	101	105
880-5664-17	C-133	96	97
880-5664-18	C-134	95	93
880-5664-19	C-135	89	88
880-5664-20	C-136	90	90
880-5664-21	C-137	100	99

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-5664-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-5664-21 MS	C-137	79	74
880-5664-21 MSD	C-137	86	84
880-5664-22	C-138	102	112
880-5664-23	C-139	98	99
880-5664-24	C-140	99	103
880-5664-25	C-141	110	115
880-5664-26	C-142	98	101
880-5664-27	C-143	101	105
880-5664-28	C-144	103	106
880-5664-29	C-145	101	100
880-5664-30	C-146	95	94
880-5664-31	C-147	78	76
880-5664-32	C-148	88	85
880-5664-33	C-149	92	99
880-5664-34	C-150	99	106
880-5664-35	C-151	101	109
880-5664-36	C-152	105	110
880-5664-37	C-153	108	108
880-5664-38	C-154	105	109
880-5664-39	C-155	104	107
880-5664-40	C-156	103	104
880-5664-41	C-157	75	81
880-5664-41 MS	C-157	71	71
880-5664-41 MSD	C-157	64 S1-	65 S1-
880-5664-42	C-158	83	94
880-5664-43	C-159	78	89
880-5664-44	C-160	81	92
880-5664-45	C-161	75	85
880-5664-46	C-162	80	88
880-5664-47	C-163	79	82
880-5664-48	C-164	77	83
880-5664-49	C-165	76	79
880-5664-50	C-166	76	80
880-5664-51	C-167	83	91
880-5664-52	C-168	79	87
880-5664-53	C-169	76	80
880-5664-54	C-170	81	88
880-5664-55	C-171	81	85
880-5664-56	C-172	86	96
880-5664-57	C-173	77	83
880-5664-58	C-174	81	91
880-5664-59	C-175	78	86
880-5664-60	C-176	78	85
880-5664-61	C-177	75	79
880-5664-61 MS	C-177	83	80
880-5664-61 MSD	C-177	68 S1-	63 S1-
880-5664-62	C-178	81	91
880-5664-63	C-179	84	91
880-5664-64	C-180	96	106
880-5664-65	C-181	77	86

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-5664-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-5664-66	C-182	102	114
880-5664-67	C-183	66 S1-	73
880-5664-68	C-184	65 S1-	68 S1-
880-5664-69	C-185	85	81
880-5664-70	C-186	86	97
880-5664-71	C-187	88	95
880-5664-72	C-188	92	95
880-5664-73	C-189	84	92
880-5664-74	C-190	88	99
880-5664-75	C-191	67 S1-	69 S1-
880-5664-76	C-192	97	105
880-5664-77	C-193	68 S1-	62 S1-
880-5664-78	C-194	69 S1-	71
880-5664-79	C-195	83	94
880-5664-80	C-196	66 S1-	65 S1-
880-5664-81	C-197	70	70
880-5664-81 MS	C-197	66 S1-	62 S1-
880-5664-81 MSD	C-197	66 S1-	65 S1-
880-5664-82	C-198	71	72
880-5664-83	C-199	74	75
880-5664-84	C-200	71	73
880-5664-85	C-201	70	74
880-5664-86	C-202	83	88
880-5666-A-1-C MS	Matrix Spike	87	85
880-5666-A-1-D MSD	Matrix Spike Duplicate	88	85
LCS 880-7387/2-A	Lab Control Sample	87	87
LCS 880-7388/2-A	Lab Control Sample	107	102
LCS 880-7390/2-A	Lab Control Sample	88	82
LCS 880-7398/2-A	Lab Control Sample	90	99
LCS 880-7400/2-A	Lab Control Sample	107	101
LCS 880-7403/2-A	Lab Control Sample	116	122
LCSD 880-7387/3-A	Lab Control Sample Dup	99	97
LCSD 880-7388/3-A	Lab Control Sample Dup	108	102
LCSD 880-7390/3-A	Lab Control Sample Dup	80	76
LCSD 880-7398/3-A	Lab Control Sample Dup	91	102
LCSD 880-7400/3-A	Lab Control Sample Dup	102	109
LCSD 880-7403/3-A	Lab Control Sample Dup	75	76
MB 880-7387/1-A	Method Blank	85	89
MB 880-7388/1-A	Method Blank	97	105
MB 880-7390/1-A	Method Blank	90	93
MB 880-7398/1-A	Method Blank	78	93
MB 880-7400/1-A	Method Blank	98	114
MB 880-7403/1-A	Method Blank	71	78

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7262/5-A

Matrix: Solid

Analysis Batch: 7384

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7262

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:00	09/01/21 12:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:00	09/01/21 12:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:00	09/01/21 12:55	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:00	09/01/21 12:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:00	09/01/21 12:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:00	09/01/21 12:55	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:00	09/01/21 12:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/01/21 09:00	09/01/21 12:55	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/01/21 09:00	09/01/21 12:55	1

Lab Sample ID: LCS 880-7262/1-A

Matrix: Solid

Analysis Batch: 7384

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07243		mg/Kg		72	70 - 130
Toluene	0.100	0.1000		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1008		mg/Kg		101	70 - 130
m,p-Xylenes	0.200	0.1893		mg/Kg		95	70 - 130
o-Xylene	0.100	0.08763		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: LCSD 880-7262/2-A

Matrix: Solid

Analysis Batch: 7384

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7262

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07059		mg/Kg		71	70 - 130	3	35
Toluene	0.100	0.08551		mg/Kg		86	70 - 130	16	35
Ethylbenzene	0.100	0.09127		mg/Kg		91	70 - 130	10	35
m,p-Xylenes	0.200	0.1691		mg/Kg		85	70 - 130	11	35
o-Xylene	0.100	0.08001		mg/Kg		80	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-5629-A-1-D MS

Matrix: Solid

Analysis Batch: 7384

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.0998	0.04812	F1	mg/Kg		48	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5629-A-1-D MS

Matrix: Solid

Analysis Batch: 7384

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00200	U F1	0.0998	0.06939	F1	mg/Kg		69	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.06915	F1	mg/Kg		68	70 - 130
m,p-Xylenes	<0.00399	U F1	0.200	0.1322	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.06388	F1	mg/Kg		63	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	96		70 - 130						
1,4-Difluorobenzene (Surr)	96		70 - 130						

Lab Sample ID: 880-5629-A-1-E MSD

Matrix: Solid

Analysis Batch: 7384

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7262

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.101	0.05315	F1	mg/Kg		53	70 - 130	10	35
Toluene	<0.00200	U F1	0.101	0.07792		mg/Kg		77	70 - 130	12	35
Ethylbenzene	<0.00200	U F1	0.101	0.08067		mg/Kg		79	70 - 130	15	35
m,p-Xylenes	<0.00399	U F1	0.202	0.1589		mg/Kg		79	70 - 130	18	35
o-Xylene	<0.00200	U F1	0.101	0.07367		mg/Kg		72	70 - 130	14	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	114		70 - 130								
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130								

Lab Sample ID: MB 880-7365/5-A

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7365

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 12:22	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 08:59	09/01/21 12:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			09/01/21 08:59	09/01/21 12:22	1
1,4-Difluorobenzene (Surr)	105		70 - 130			09/01/21 08:59	09/01/21 12:22	1

Lab Sample ID: LCS 880-7365/1-A

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09710		mg/Kg		97	70 - 130
Toluene	0.100	0.1037		mg/Kg		104	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-7365/1-A

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.1145		mg/Kg		114	70 - 130
m,p-Xylenes	0.200	0.2087		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1024		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-7365/2-A

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7365

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09606		mg/Kg		96	70 - 130	1	35
Toluene	0.100	0.1018		mg/Kg		102	70 - 130	2	35
Ethylbenzene	0.100	0.1104		mg/Kg		110	70 - 130	4	35
m,p-Xylenes	0.200	0.1998		mg/Kg		100	70 - 130	4	35
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-5664-1 MS

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: C-117

Prep Type: Total/NA

Prep Batch: 7365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0998	0.09596		mg/Kg		96	70 - 130
Toluene	<0.00199	U	0.0998	0.1005		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.1068		mg/Kg		107	70 - 130
m,p-Xylenes	<0.00398	U	0.200	0.1967		mg/Kg		99	70 - 130
o-Xylene	<0.00199	U	0.0998	0.09814		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-5664-1 MSD

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: C-117

Prep Type: Total/NA

Prep Batch: 7365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.08139		mg/Kg		81	70 - 130	16	35
Toluene	<0.00199	U	0.101	0.09594		mg/Kg		95	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.101	0.1081		mg/Kg		107	70 - 130	1	35
m,p-Xylenes	<0.00398	U	0.202	0.2082		mg/Kg		103	70 - 130	6	35
o-Xylene	<0.00199	U	0.101	0.1074		mg/Kg		106	70 - 130	9	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-7367/5-A

Matrix: Solid

Analysis Batch: 7419

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7367

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 13:04	1	
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 13:04	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 13:04	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:06	09/02/21 13:04	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:06	09/02/21 13:04	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:06	09/02/21 13:04	1	
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:06	09/02/21 13:04	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	79		70 - 130	09/01/21 09:06	09/02/21 13:04	1			
1,4-Difluorobenzene (Surr)	104		70 - 130	09/01/21 09:06	09/02/21 13:04	1			

Lab Sample ID: LCS 880-7367/1-A

Matrix: Solid

Analysis Batch: 7419

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7367

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.08966		mg/Kg		90	70 - 130		
Toluene	0.100	0.1000		mg/Kg		100	70 - 130		
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130		
m,p-Xylenes	0.200	0.2049		mg/Kg		102	70 - 130		
o-Xylene	0.100	0.09977		mg/Kg		100	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-7367/2-A

Matrix: Solid

Analysis Batch: 7419

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7367

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08835		mg/Kg		88	70 - 130	1	35	
Toluene	0.100	0.09623		mg/Kg		96	70 - 130	4	35	
Ethylbenzene	0.100	0.09991		mg/Kg		100	70 - 130	4	35	
m,p-Xylenes	0.200	0.1975		mg/Kg		99	70 - 130	4	35	
o-Xylene	0.100	0.09718		mg/Kg		97	70 - 130	3	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5664-21 MS

Matrix: Solid

Analysis Batch: 7419

Client Sample ID: C-137

Prep Type: Total/NA

Prep Batch: 7367

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0998	0.07556		mg/Kg		76	70 - 130
Toluene	<0.00200	U	0.0998	0.08545		mg/Kg		86	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.09048		mg/Kg		91	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.1772		mg/Kg		89	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08379		mg/Kg		84	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		70 - 130						
1,4-Difluorobenzene (Surr)	97		70 - 130						

Lab Sample ID: 880-5664-21 MSD

Matrix: Solid

Analysis Batch: 7419

Client Sample ID: C-137

Prep Type: Total/NA

Prep Batch: 7367

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.09764		mg/Kg		97	70 - 130	25	35
Toluene	<0.00200	U	0.101	0.09027		mg/Kg		90	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.101	0.09484		mg/Kg		94	70 - 130	5	35
m,p-Xylenes	<0.00399	U	0.202	0.1891		mg/Kg		94	70 - 130	7	35
o-Xylene	<0.00200	U	0.101	0.09341		mg/Kg		93	70 - 130	11	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

Lab Sample ID: MB 880-7381/5-A

Matrix: Solid

Analysis Batch: 7418

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7381

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 12:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 12:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 12:09	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 12:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:14	09/02/21 12:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 12:09	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:14	09/02/21 12:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	109		70 - 130	09/01/21 09:14	09/02/21 12:09	1		
1,4-Difluorobenzene (Surr)	96		70 - 130	09/01/21 09:14	09/02/21 12:09	1		

Lab Sample ID: LCS 880-7381/1-A

Matrix: Solid

Analysis Batch: 7418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08954		mg/Kg		90	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-7381/1-A

Matrix: Solid

Analysis Batch: 7418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.100	0.09233		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130
m,p-Xylenes	0.200	0.1837		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09000		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-7381/2-A

Matrix: Solid

Analysis Batch: 7418

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7381

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07718		mg/Kg		77	70 - 130	15	35
Toluene	0.100	0.07705		mg/Kg		77	70 - 130	18	35
Ethylbenzene	0.100	0.08710		mg/Kg		87	70 - 130	17	35
m,p-Xylenes	0.200	0.1571		mg/Kg		79	70 - 130	16	35
o-Xylene	0.100	0.07793		mg/Kg		78	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-5664-41 MS

Matrix: Solid

Analysis Batch: 7418

Client Sample ID: C-157

Prep Type: Total/NA

Prep Batch: 7381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.0998	0.04704	F1	mg/Kg		47	70 - 130
Toluene	<0.00200	U F1	0.0998	0.06711	F1	mg/Kg		67	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.06624	F1	mg/Kg		66	70 - 130
m,p-Xylenes	<0.00399	U F1	0.200	0.1155	F1	mg/Kg		58	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.05859	F1	mg/Kg		58	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-5664-41 MSD

Matrix: Solid

Analysis Batch: 7418

Client Sample ID: C-157

Prep Type: Total/NA

Prep Batch: 7381

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.04538	F1	mg/Kg		46	70 - 130	4	35
Toluene	<0.00200	U F1	0.0994	0.05533	F1	mg/Kg		56	70 - 130	19	35
Ethylbenzene	<0.00200	U F1	0.0994	0.05453	F1	mg/Kg		55	70 - 130	19	35
m,p-Xylenes	<0.00399	U F1	0.199	0.09415	F1	mg/Kg		47	70 - 130	20	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5664-41 MSD

Matrix: Solid

Analysis Batch: 7418

Client Sample ID: C-157

Prep Type: Total/NA

Prep Batch: 7381

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	<0.00200	U F1	0.0994	0.04840	F1	mg/Kg		48	70 - 130	19	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	84		70 - 130								
1,4-Difluorobenzene (Surr)	80		70 - 130								

Lab Sample ID: MB 880-7382/5-A

Matrix: Solid

Analysis Batch: 7420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7382

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 13:59		1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 13:59		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 13:59		1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 13:59		1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/21 09:18	09/02/21 13:59		1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 13:59		1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/01/21 09:18	09/02/21 13:59		1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	125		70 - 130			09/01/21 09:18	09/02/21 13:59		1
1,4-Difluorobenzene (Surr)	110		70 - 130			09/01/21 09:18	09/02/21 13:59		1

Lab Sample ID: LCS 880-7382/1-A

Matrix: Solid

Analysis Batch: 7420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7382

Analyte	Spike Added	LCS Result	LCS		D	%Rec	%Rec.
			Qualifier	Unit			Limits
Benzene	0.100	0.09382		mg/Kg		94	70 - 130
Toluene	0.100	0.09949		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1014		mg/Kg		101	70 - 130
m,p-Xylenes	0.200	0.1868		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09458		mg/Kg		95	70 - 130
			LCS	LCS			
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		70 - 130				
1,4-Difluorobenzene (Surr)	93		70 - 130				

Lab Sample ID: LCSD 880-7382/2-A

Matrix: Solid

Analysis Batch: 7420

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7382

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1039		mg/Kg		104	70 - 130	10	35
Toluene	0.100	0.09965		mg/Kg		100	70 - 130	0	35
Ethylbenzene	0.100	0.1094		mg/Kg		109	70 - 130	8	35
m,p-Xylenes	0.200	0.1989		mg/Kg		99	70 - 130	6	35
o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130	7	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-5664-61 MS
Matrix: Solid
Analysis Batch: 7420

Client Sample ID: C-177
Prep Type: Total/NA
Prep Batch: 7382

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1 F2	0.101	0.04222	F1	mg/Kg		41	70 - 130
Toluene	<0.00199	U F1 F2	0.101	0.05047	F1	mg/Kg		50	70 - 130
Ethylbenzene	<0.00199	U F1	0.101	0.06648	F1	mg/Kg		66	70 - 130
m,p-Xylenes	<0.00398	U F1	0.202	0.1228	F1	mg/Kg		61	70 - 130
o-Xylene	<0.00199	U	0.101	0.07139		mg/Kg		71	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: 880-5664-61 MSD
Matrix: Solid
Analysis Batch: 7420

Client Sample ID: C-177
Prep Type: Total/NA
Prep Batch: 7382

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1 F2	0.0996	0.07611	F2	mg/Kg		76	70 - 130	57	35
Toluene	<0.00199	U F1 F2	0.0996	0.07843	F2	mg/Kg		79	70 - 130	43	35
Ethylbenzene	<0.00199	U F1	0.0996	0.08338		mg/Kg		84	70 - 130	23	35
m,p-Xylenes	<0.00398	U F1	0.199	0.1550		mg/Kg		78	70 - 130	23	35
o-Xylene	<0.00199	U	0.0996	0.08148		mg/Kg		82	70 - 130	13	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-7447/5-A
Matrix: Solid
Analysis Batch: 7459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7447

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/02/21 13:48	09/02/21 18:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/02/21 13:48	09/02/21 18:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/02/21 13:48	09/02/21 18:54	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/02/21 13:48	09/02/21 18:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/02/21 13:48	09/02/21 18:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/02/21 13:48	09/02/21 18:54	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/02/21 13:48	09/02/21 18:54	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	93		70 - 130	09/02/21 13:48	09/02/21 18:54	1		
1,4-Difluorobenzene (Surr)	99		70 - 130	09/02/21 13:48	09/02/21 18:54	1		

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-7447/1-A

Matrix: Solid

Analysis Batch: 7459

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07415		mg/Kg		74	70 - 130
Toluene	0.100	0.07234		mg/Kg		72	70 - 130
Ethylbenzene	0.100	0.07580		mg/Kg		76	70 - 130
m,p-Xylenes	0.200	0.1540		mg/Kg		77	70 - 130
o-Xylene	0.100	0.07794		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-7447/2-A

Matrix: Solid

Analysis Batch: 7459

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7447

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07554		mg/Kg		76	70 - 130	2	35
Toluene	0.100	0.07574		mg/Kg		76	70 - 130	5	35
Ethylbenzene	0.100	0.07810		mg/Kg		78	70 - 130	3	35
m,p-Xylenes	0.200	0.1605		mg/Kg		80	70 - 130	4	35
o-Xylene	0.100	0.08154		mg/Kg		82	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-5735-A-1-A MS

Matrix: Solid

Analysis Batch: 7459

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7447

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.0996	0.05737	F1	mg/Kg		58	70 - 130
Toluene	<0.00198	U F1	0.0996	0.05294	F1	mg/Kg		53	70 - 130
Ethylbenzene	<0.00198	U F1	0.0996	0.04757	F1	mg/Kg		48	70 - 130
m,p-Xylenes	<0.00397	U F1 F2	0.199	0.04339	F1	mg/Kg		22	70 - 130
o-Xylene	<0.00198	U F1	0.0996	0.05087	F1	mg/Kg		51	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-5735-A-1-B MSD

Matrix: Solid

Analysis Batch: 7459

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7447

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0992	0.06299	F1	mg/Kg		63	70 - 130	9	35
Toluene	<0.00198	U F1	0.0992	0.06074	F1	mg/Kg		61	70 - 130	14	35
Ethylbenzene	<0.00198	U F1	0.0992	0.05540	F1	mg/Kg		56	70 - 130	15	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5735-A-1-B MSD

Matrix: Solid

Analysis Batch: 7459

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7447

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m,p-Xylenes	<0.00397	U F1 F2	0.198	0.1131	F1 F2	mg/Kg		57	70 - 130	89	35
o-Xylene	<0.00198	U F1	0.0992	0.05797	F1	mg/Kg		58	70 - 130	13	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	116		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-7387/1-A

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7387

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 10:35	09/01/21 11:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 10:35	09/01/21 11:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 10:35	09/01/21 11:41	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 10:35	09/01/21 11:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			09/01/21 10:35	09/01/21 11:41	1
o-Terphenyl (Surr)	89		70 - 130			09/01/21 10:35	09/01/21 11:41	1

Lab Sample ID: LCS 880-7387/2-A

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	961.8		mg/Kg		96	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	805.0		mg/Kg		81	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane (Surr)	87		70 - 130					
o-Terphenyl (Surr)	87		70 - 130					

Lab Sample ID: LCSD 880-7387/3-A

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7387

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1019		mg/Kg		102	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	906.4		mg/Kg		91	70 - 130	12	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-7387/3-A

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7387

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: 880-5666-A-1-C MS

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7387

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	875.9		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	995	781.7		mg/Kg		76	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	87		70 - 130							
o-Terphenyl (Surr)	85		70 - 130							

Lab Sample ID: 880-5666-A-1-D MSD

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7387

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	919.8		mg/Kg		92	70 - 130	5	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	794.0		mg/Kg		77	70 - 130	2	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	88		70 - 130									
o-Terphenyl (Surr)	85		70 - 130									

Lab Sample ID: MB 880-7388/1-A

Matrix: Solid

Analysis Batch: 7421

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7388

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 11:21	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 11:21	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 11:21	1		
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:04	09/02/21 11:21	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	97		70 - 130			09/01/21 11:04	09/02/21 11:21	1		
o-Terphenyl (Surr)	105		70 - 130			09/01/21 11:04	09/02/21 11:21	1		

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-7388/2-A

Matrix: Solid

Analysis Batch: 7421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7388

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	900.2		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	845.3		mg/Kg		85	70 - 130		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	107		70 - 130								
o-Terphenyl (Surr)	102		70 - 130								

Lab Sample ID: LCSD 880-7388/3-A

Matrix: Solid

Analysis Batch: 7421

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7388

			Spike	LCSD	LCSD				%Rec.			RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	863.2		mg/Kg		86	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)			1000	851.6		mg/Kg		85	70 - 130	1	20	

Lab Sample ID: 880-5664-1 MS

Matrix: Solid

Analysis Batch: 7421

Client Sample ID: C-117

Prep Type: Total/NA

Prep Batch: 7388

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	995	77.61	F1	mg/Kg		4	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	<49.8	U F1	mg/Kg		-0.4	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	108		70 - 130								
o-Terphenyl (Surr)	117		70 - 130								

Lab Sample ID: 880-5664-1 MSD

Matrix: Solid

Analysis Batch: 7421

Client Sample ID: C-117

Prep Type: Total/NA

Prep Batch: 7388

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	998	<49.9	U F1 F2	mg/Kg		-0.05	70 - 130	65	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	<49.9	U F1	mg/Kg		-0.5	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	95		70 - 130								

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-5664-1 MSD

Matrix: Solid

Analysis Batch: 7421

Client Sample ID: C-117

Prep Type: Total/NA

Prep Batch: 7388

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	101		70 - 130

Lab Sample ID: MB 880-7390/1-A

Matrix: Solid

Analysis Batch: 7423

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7390

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 11:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 11:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 11:21	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 11:19	09/02/21 11:21	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier					
1-Chlorooctane (Surr)	90		70 - 130	09/01/21 11:19	09/02/21 11:21	1
<i>o</i> -Terphenyl (Surr)	93		70 - 130	09/01/21 11:19	09/02/21 11:21	1

Lab Sample ID: LCS 880-7390/2-A

Matrix: Solid

Analysis Batch: 7423

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7390

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
Result	Qualifier						Limits
Gasoline Range Organics (GRO)-C6-C10	1000	908.8		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	783.7		mg/Kg		78	70 - 130

Surrogate	LCS	LCS	Limits
%Recovery	Qualifier		
1-Chlorooctane (Surr)	88		70 - 130
<i>o</i> -Terphenyl (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-7390/3-A

Matrix: Solid

Analysis Batch: 7423

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7390

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD
Result	Qualifier						Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	772.9		mg/Kg		77	70 - 130	16
Diesel Range Organics (Over C10-C28)	1000	703.8		mg/Kg		70	70 - 130	11

Surrogate	LCSD	LCSD	Limits
%Recovery	Qualifier		
1-Chlorooctane (Surr)	80		70 - 130
<i>o</i> -Terphenyl (Surr)	76		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-5664-21 MS

Matrix: Solid

Analysis Batch: 7423

Client Sample ID: C-137

Prep Type: Total/NA

Prep Batch: 7390

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	917.4		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	669.1	F1	mg/Kg		67	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	79		70 - 130						
o-Terphenyl (Surr)	74		70 - 130						

Lab Sample ID: 880-5664-21 MSD

Matrix: Solid

Analysis Batch: 7423

Client Sample ID: C-137

Prep Type: Total/NA

Prep Batch: 7390

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	876.7		mg/Kg		86	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	774.7		mg/Kg		78	70 - 130	15	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	86		70 - 130								
o-Terphenyl (Surr)	84		70 - 130								

Lab Sample ID: MB 880-7398/1-A

Matrix: Solid

Analysis Batch: 7425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7398

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 11:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 11:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 11:08	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 13:31	09/02/21 11:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			09/01/21 13:31	09/02/21 11:08	1
o-Terphenyl (Surr)	93		70 - 130			09/01/21 13:31	09/02/21 11:08	1

Lab Sample ID: LCS 880-7398/2-A

Matrix: Solid

Analysis Batch: 7425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	770.1		mg/Kg		77	70 - 130
Diesel Range Organics (Over C10-C28)	1000	870.4		mg/Kg		87	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-7398/2-A

Matrix: Solid

Analysis Batch: 7425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7398

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-7398/3-A

Matrix: Solid

Analysis Batch: 7425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7398

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	770.4		mg/Kg		77	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	877.5		mg/Kg		88	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	91		70 - 130
o-Terphenyl (Surr)	102		70 - 130

Lab Sample ID: 880-5664-41 MS

Matrix: Solid

Analysis Batch: 7425

Client Sample ID: C-157

Prep Type: Total/NA

Prep Batch: 7398

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	710.3		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	725.9		mg/Kg		73	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	71		70 - 130
o-Terphenyl (Surr)	71		70 - 130

Lab Sample ID: 880-5664-41 MSD

Matrix: Solid

Analysis Batch: 7425

Client Sample ID: C-157

Prep Type: Total/NA

Prep Batch: 7398

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	583.3	F1	mg/Kg		58	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	674.0	F1	mg/Kg		68	70 - 130	7	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	64	S1-	70 - 130
o-Terphenyl (Surr)	65	S1-	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-7400/1-A

Matrix: Solid

Analysis Batch: 7427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7400

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 11:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 11:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 11:08	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 13:51	09/02/21 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	09/01/21 13:51	09/02/21 11:08	1
o-Terphenyl (Surr)	114		70 - 130	09/01/21 13:51	09/02/21 11:08	1

Lab Sample ID: LCS 880-7400/2-A

Matrix: Solid

Analysis Batch: 7427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	916.4		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	930.2		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-7400/3-A

Matrix: Solid

Analysis Batch: 7427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7400

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	880.1		mg/Kg		88	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	986.9		mg/Kg		99	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: 880-5664-61 MS

Matrix: Solid

Analysis Batch: 7427

Client Sample ID: C-177

Prep Type: Total/NA

Prep Batch: 7400

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	919.5		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	995	871.0		mg/Kg		86	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-5664-61 MS

Matrix: Solid

Analysis Batch: 7427

Client Sample ID: C-177

Prep Type: Total/NA

Prep Batch: 7400

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	83		70 - 130
o-Terphenyl (Surr)	80		70 - 130

Lab Sample ID: 880-5664-61 MSD

Matrix: Solid

Analysis Batch: 7427

Client Sample ID: C-177

Prep Type: Total/NA

Prep Batch: 7400

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	754.8		mg/Kg		76	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	998	683.3	F1 F2	mg/Kg		67	70 - 130	24	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	68	S1-	70 - 130
o-Terphenyl (Surr)	63	S1-	70 - 130

Lab Sample ID: MB 880-7403/1-A

Matrix: Solid

Analysis Batch: 7359

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7403

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 15:12	09/01/21 21:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 15:12	09/01/21 21:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 15:12	09/01/21 21:54	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 15:12	09/01/21 21:54	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	71		70 - 130	09/01/21 15:12	09/01/21 21:54	1		
o-Terphenyl (Surr)	78		70 - 130	09/01/21 15:12	09/01/21 21:54	1		

Lab Sample ID: LCS 880-7403/2-A

Matrix: Solid

Analysis Batch: 7359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	834.0		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	953.5		mg/Kg		95	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	116		70 - 130
o-Terphenyl (Surr)	122		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-7403/3-A

Matrix: Solid

Analysis Batch: 7359

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7403

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	852.8		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	862.2		mg/Kg		86	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	75		70 - 130						
o-Terphenyl (Surr)	76		70 - 130						

Lab Sample ID: 880-5664-81 MS

Matrix: Solid

Analysis Batch: 7359

Client Sample ID: C-197

Prep Type: Total/NA

Prep Batch: 7403

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	622.9	F1	mg/Kg		63	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	599.8	F1	mg/Kg		58	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	66	S1-	70 - 130								
o-Terphenyl (Surr)	62	S1-	70 - 130								

Lab Sample ID: 880-5664-81 MSD

Matrix: Solid

Analysis Batch: 7359

Client Sample ID: C-197

Prep Type: Total/NA

Prep Batch: 7403

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	656.4	F1	mg/Kg		66	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	617.8	F1	mg/Kg		59	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	66	S1-	70 - 130								
o-Terphenyl (Surr)	65	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7391/1-A

Matrix: Solid

Analysis Batch: 7411

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/01/21 18:33	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-7391/2-A

Matrix: Solid

Analysis Batch: 7411

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.6		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-7391/3-A

Matrix: Solid

Analysis Batch: 7411

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.6		mg/Kg		99	90 - 110	5	20

Lab Sample ID: 880-5662-A-1-B MS

Matrix: Solid

Analysis Batch: 7411

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	70.8		250	311.2		mg/Kg		96	90 - 110

Lab Sample ID: 880-5662-A-1-C MSD

Matrix: Solid

Analysis Batch: 7411

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	70.8		250	317.6		mg/Kg		99	90 - 110	2	20

Lab Sample ID: MB 880-7393/1-A

Matrix: Solid

Analysis Batch: 7412

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/02/21 01:03	1

Lab Sample ID: LCS 880-7393/2-A

Matrix: Solid

Analysis Batch: 7412

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	254.3		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-7393/3-A

Matrix: Solid

Analysis Batch: 7412

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	260.2		mg/Kg		104	90 - 110	2	20

Lab Sample ID: 880-5664-77 MS

Matrix: Solid

Analysis Batch: 7412

Client Sample ID: C-193

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.7		248	276.0		mg/Kg		99	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-5664-77 MSD

Matrix: Solid

Analysis Batch: 7412

Client Sample ID: C-193

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	30.7		248	264.5		mg/Kg		94	90 - 110	4	20

Lab Sample ID: MB 880-7399/1-A

Matrix: Solid

Analysis Batch: 7413

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/01/21 17:23	1

Lab Sample ID: LCS 880-7399/2-A

Matrix: Solid

Analysis Batch: 7413

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	268.2		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-7399/3-A

Matrix: Solid

Analysis Batch: 7413

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	267.5		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-5664-36 MS

Matrix: Solid

Analysis Batch: 7413

Client Sample ID: C-152

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	257		250	511.6		mg/Kg		102	90 - 110

Lab Sample ID: 880-5664-36 MSD

Matrix: Solid

Analysis Batch: 7413

Client Sample ID: C-152

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	257		250	514.1		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-7392/1-A

Matrix: Solid

Analysis Batch: 7452

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/02/21 17:34	1

Lab Sample ID: LCS 880-7392/2-A

Matrix: Solid

Analysis Batch: 7452

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	266.4		mg/Kg		107	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-7392/3-A

Matrix: Solid

Analysis Batch: 7452

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	259.4		mg/Kg		104	90 - 110	3	20

Lab Sample ID: 880-5664-49 MS

Matrix: Solid

Analysis Batch: 7452

Client Sample ID: C-165

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	51.5	F1	248	315.7		mg/Kg		107	90 - 110		

Lab Sample ID: 880-5664-49 MSD

Matrix: Solid

Analysis Batch: 7452

Client Sample ID: C-165

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	51.5	F1	248	335.6	F1	mg/Kg		115	90 - 110	6	20

Lab Sample ID: 880-5664-59 MS

Matrix: Solid

Analysis Batch: 7452

Client Sample ID: C-175

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	207		249	440.6		mg/Kg		94	90 - 110		

Lab Sample ID: 880-5664-59 MSD

Matrix: Solid

Analysis Batch: 7452

Client Sample ID: C-175

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	207		249	449.5		mg/Kg		97	90 - 110	2	20

Lab Sample ID: MB 880-7394/1-A

Matrix: Solid

Analysis Batch: 7453

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/02/21 20:52	1

Lab Sample ID: LCS 880-7394/2-A

Matrix: Solid

Analysis Batch: 7453

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	255.0		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-7394/3-A

Matrix: Solid

Analysis Batch: 7453

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	266.4		mg/Kg		107	90 - 110	4	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-5664-5 MS

Matrix: Solid

Analysis Batch: 7453

Client Sample ID: C-121

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	21.4		253	281.9		mg/Kg		103	90 - 110

Lab Sample ID: 880-5664-5 MSD

Matrix: Solid

Analysis Batch: 7453

Client Sample ID: C-121

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	21.4		253	280.5		mg/Kg		103	90 - 110	1	20

Lab Sample ID: MB 880-7395/1-A

Matrix: Solid

Analysis Batch: 7454

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/03/21 19:50	1

Lab Sample ID: LCS 880-7395/2-A

Matrix: Solid

Analysis Batch: 7454

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.1		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-7395/3-A

Matrix: Solid

Analysis Batch: 7454

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.3		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-5664-15 MS

Matrix: Solid

Analysis Batch: 7454

Client Sample ID: C-131

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	76.4		249	335.6		mg/Kg		104	90 - 110

Lab Sample ID: 880-5664-15 MSD

Matrix: Solid

Analysis Batch: 7454

Client Sample ID: C-131

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	76.4		249	335.7		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-5664-25 MS

Matrix: Solid

Analysis Batch: 7454

Client Sample ID: C-141

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	172		248	427.3		mg/Kg		103	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-5664-25 MSD

Matrix: Solid

Analysis Batch: 7454

Client Sample ID: C-141

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	172		248	428.2		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

GC VOA

Prep Batch: 7262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-81	C-197	Total/NA	Solid	5035	
880-5664-82	C-198	Total/NA	Solid	5035	
880-5664-83	C-199	Total/NA	Solid	5035	
880-5664-84	C-200	Total/NA	Solid	5035	
880-5664-85	C-201	Total/NA	Solid	5035	
880-5664-86	C-202	Total/NA	Solid	5035	
MB 880-7262/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7262/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7262/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5629-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-5629-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 7365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-1	C-117	Total/NA	Solid	5035	
880-5664-2	C-118	Total/NA	Solid	5035	
880-5664-3	C-119	Total/NA	Solid	5035	
880-5664-4	C-120	Total/NA	Solid	5035	
880-5664-5	C-121	Total/NA	Solid	5035	
880-5664-6	C-122	Total/NA	Solid	5035	
880-5664-7	C-123	Total/NA	Solid	5035	
880-5664-9	C-125	Total/NA	Solid	5035	
880-5664-10	C-126	Total/NA	Solid	5035	
880-5664-11	C-127	Total/NA	Solid	5035	
880-5664-12	C-128	Total/NA	Solid	5035	
880-5664-13	C-129	Total/NA	Solid	5035	
880-5664-14	C-130	Total/NA	Solid	5035	
880-5664-15	C-131	Total/NA	Solid	5035	
880-5664-16	C-132	Total/NA	Solid	5035	
880-5664-17	C-133	Total/NA	Solid	5035	
880-5664-18	C-134	Total/NA	Solid	5035	
880-5664-19	C-135	Total/NA	Solid	5035	
880-5664-20	C-136	Total/NA	Solid	5035	
MB 880-7365/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7365/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7365/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5664-1 MS	C-117	Total/NA	Solid	5035	
880-5664-1 MSD	C-117	Total/NA	Solid	5035	

Analysis Batch: 7366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-1	C-117	Total/NA	Solid	8021B	7365
880-5664-2	C-118	Total/NA	Solid	8021B	7365
880-5664-3	C-119	Total/NA	Solid	8021B	7365
880-5664-4	C-120	Total/NA	Solid	8021B	7365
880-5664-5	C-121	Total/NA	Solid	8021B	7365
880-5664-6	C-122	Total/NA	Solid	8021B	7365
880-5664-7	C-123	Total/NA	Solid	8021B	7365
880-5664-9	C-125	Total/NA	Solid	8021B	7365
880-5664-10	C-126	Total/NA	Solid	8021B	7365
880-5664-11	C-127	Total/NA	Solid	8021B	7365

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 7366 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-12	C-128	Total/NA	Solid	8021B	7365
880-5664-13	C-129	Total/NA	Solid	8021B	7365
880-5664-14	C-130	Total/NA	Solid	8021B	7365
880-5664-15	C-131	Total/NA	Solid	8021B	7365
880-5664-16	C-132	Total/NA	Solid	8021B	7365
880-5664-17	C-133	Total/NA	Solid	8021B	7365
880-5664-18	C-134	Total/NA	Solid	8021B	7365
880-5664-19	C-135	Total/NA	Solid	8021B	7365
880-5664-20	C-136	Total/NA	Solid	8021B	7365
MB 880-7365/5-A	Method Blank	Total/NA	Solid	8021B	7365
LCS 880-7365/1-A	Lab Control Sample	Total/NA	Solid	8021B	7365
LCSD 880-7365/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7365
880-5664-1 MS	C-117	Total/NA	Solid	8021B	7365
880-5664-1 MSD	C-117	Total/NA	Solid	8021B	7365

Prep Batch: 7367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-21	C-137	Total/NA	Solid	5035	
880-5664-22	C-138	Total/NA	Solid	5035	
880-5664-23	C-139	Total/NA	Solid	5035	
880-5664-24	C-140	Total/NA	Solid	5035	
880-5664-25	C-141	Total/NA	Solid	5035	
880-5664-26	C-142	Total/NA	Solid	5035	
880-5664-27	C-143	Total/NA	Solid	5035	
880-5664-28	C-144	Total/NA	Solid	5035	
880-5664-29	C-145	Total/NA	Solid	5035	
880-5664-31	C-147	Total/NA	Solid	5035	
880-5664-32	C-148	Total/NA	Solid	5035	
880-5664-33	C-149	Total/NA	Solid	5035	
880-5664-34	C-150	Total/NA	Solid	5035	
880-5664-35	C-151	Total/NA	Solid	5035	
880-5664-36	C-152	Total/NA	Solid	5035	
880-5664-37	C-153	Total/NA	Solid	5035	
880-5664-38	C-154	Total/NA	Solid	5035	
880-5664-39	C-155	Total/NA	Solid	5035	
880-5664-40	C-156	Total/NA	Solid	5035	
MB 880-7367/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7367/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7367/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5664-21 MS	C-137	Total/NA	Solid	5035	
880-5664-21 MSD	C-137	Total/NA	Solid	5035	

Prep Batch: 7381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-41	C-157	Total/NA	Solid	5035	
880-5664-42	C-158	Total/NA	Solid	5035	
880-5664-43	C-159	Total/NA	Solid	5035	
880-5664-44	C-160	Total/NA	Solid	5035	
880-5664-45	C-161	Total/NA	Solid	5035	
880-5664-46	C-162	Total/NA	Solid	5035	
880-5664-47	C-163	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 7381 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-48	C-164	Total/NA	Solid	5035	
880-5664-49	C-165	Total/NA	Solid	5035	
880-5664-50	C-166	Total/NA	Solid	5035	
880-5664-51	C-167	Total/NA	Solid	5035	
880-5664-52	C-168	Total/NA	Solid	5035	
880-5664-53	C-169	Total/NA	Solid	5035	
880-5664-54	C-170	Total/NA	Solid	5035	
880-5664-55	C-171	Total/NA	Solid	5035	
880-5664-56	C-172	Total/NA	Solid	5035	
880-5664-57	C-173	Total/NA	Solid	5035	
880-5664-58	C-174	Total/NA	Solid	5035	
880-5664-59	C-175	Total/NA	Solid	5035	
880-5664-60	C-176	Total/NA	Solid	5035	
MB 880-7381/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7381/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7381/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5664-41 MS	C-157	Total/NA	Solid	5035	
880-5664-41 MSD	C-157	Total/NA	Solid	5035	

Prep Batch: 7382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-61	C-177	Total/NA	Solid	5035	
880-5664-62	C-178	Total/NA	Solid	5035	
880-5664-63	C-179	Total/NA	Solid	5035	
880-5664-64	C-180	Total/NA	Solid	5035	
880-5664-65	C-181	Total/NA	Solid	5035	
880-5664-66	C-182	Total/NA	Solid	5035	
880-5664-67	C-183	Total/NA	Solid	5035	
880-5664-68	C-184	Total/NA	Solid	5035	
880-5664-69	C-185	Total/NA	Solid	5035	
880-5664-70	C-186	Total/NA	Solid	5035	
880-5664-71	C-187	Total/NA	Solid	5035	
880-5664-72	C-188	Total/NA	Solid	5035	
880-5664-73	C-189	Total/NA	Solid	5035	
880-5664-74	C-190	Total/NA	Solid	5035	
880-5664-75	C-191	Total/NA	Solid	5035	
880-5664-76	C-192	Total/NA	Solid	5035	
880-5664-77	C-193	Total/NA	Solid	5035	
880-5664-78	C-194	Total/NA	Solid	5035	
880-5664-79	C-195	Total/NA	Solid	5035	
880-5664-80	C-196	Total/NA	Solid	5035	
MB 880-7382/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7382/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7382/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5664-61 MS	C-177	Total/NA	Solid	5035	
880-5664-61 MSD	C-177	Total/NA	Solid	5035	

Analysis Batch: 7384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-81	C-197	Total/NA	Solid	8021B	7262
880-5664-82	C-198	Total/NA	Solid	8021B	7262

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 7384 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-83	C-199	Total/NA	Solid	8021B	7262
880-5664-84	C-200	Total/NA	Solid	8021B	7262
880-5664-85	C-201	Total/NA	Solid	8021B	7262
880-5664-86	C-202	Total/NA	Solid	8021B	7262
MB 880-7262/5-A	Method Blank	Total/NA	Solid	8021B	7262
LCS 880-7262/1-A	Lab Control Sample	Total/NA	Solid	8021B	7262
LCSD 880-7262/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7262
880-5629-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	7262
880-5629-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7262

Analysis Batch: 7418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-41	C-157	Total/NA	Solid	8021B	7381
880-5664-42	C-158	Total/NA	Solid	8021B	7381
880-5664-43	C-159	Total/NA	Solid	8021B	7381
880-5664-44	C-160	Total/NA	Solid	8021B	7381
880-5664-45	C-161	Total/NA	Solid	8021B	7381
880-5664-46	C-162	Total/NA	Solid	8021B	7381
880-5664-47	C-163	Total/NA	Solid	8021B	7381
880-5664-48	C-164	Total/NA	Solid	8021B	7381
880-5664-49	C-165	Total/NA	Solid	8021B	7381
880-5664-50	C-166	Total/NA	Solid	8021B	7381
880-5664-51	C-167	Total/NA	Solid	8021B	7381
880-5664-52	C-168	Total/NA	Solid	8021B	7381
880-5664-53	C-169	Total/NA	Solid	8021B	7381
880-5664-54	C-170	Total/NA	Solid	8021B	7381
880-5664-55	C-171	Total/NA	Solid	8021B	7381
880-5664-56	C-172	Total/NA	Solid	8021B	7381
880-5664-57	C-173	Total/NA	Solid	8021B	7381
880-5664-58	C-174	Total/NA	Solid	8021B	7381
880-5664-59	C-175	Total/NA	Solid	8021B	7381
880-5664-60	C-176	Total/NA	Solid	8021B	7381
MB 880-7381/5-A	Method Blank	Total/NA	Solid	8021B	7381
LCS 880-7381/1-A	Lab Control Sample	Total/NA	Solid	8021B	7381
LCSD 880-7381/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7381
880-5664-41 MS	C-157	Total/NA	Solid	8021B	7381
880-5664-41 MSD	C-157	Total/NA	Solid	8021B	7381

Analysis Batch: 7419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-21	C-137	Total/NA	Solid	8021B	7367
880-5664-22	C-138	Total/NA	Solid	8021B	7367
880-5664-23	C-139	Total/NA	Solid	8021B	7367
880-5664-24	C-140	Total/NA	Solid	8021B	7367
880-5664-25	C-141	Total/NA	Solid	8021B	7367
880-5664-26	C-142	Total/NA	Solid	8021B	7367
880-5664-27	C-143	Total/NA	Solid	8021B	7367
880-5664-28	C-144	Total/NA	Solid	8021B	7367
880-5664-29	C-145	Total/NA	Solid	8021B	7367
880-5664-31	C-147	Total/NA	Solid	8021B	7367
880-5664-32	C-148	Total/NA	Solid	8021B	7367

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 7419 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-33	C-149	Total/NA	Solid	8021B	7367
880-5664-34	C-150	Total/NA	Solid	8021B	7367
880-5664-35	C-151	Total/NA	Solid	8021B	7367
880-5664-36	C-152	Total/NA	Solid	8021B	7367
880-5664-37	C-153	Total/NA	Solid	8021B	7367
880-5664-38	C-154	Total/NA	Solid	8021B	7367
880-5664-39	C-155	Total/NA	Solid	8021B	7367
880-5664-40	C-156	Total/NA	Solid	8021B	7367
MB 880-7367/5-A	Method Blank	Total/NA	Solid	8021B	7367
LCS 880-7367/1-A	Lab Control Sample	Total/NA	Solid	8021B	7367
LCSD 880-7367/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7367
880-5664-21 MS	C-137	Total/NA	Solid	8021B	7367
880-5664-21 MSD	C-137	Total/NA	Solid	8021B	7367

Analysis Batch: 7420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-61	C-177	Total/NA	Solid	8021B	7382
880-5664-62	C-178	Total/NA	Solid	8021B	7382
880-5664-63	C-179	Total/NA	Solid	8021B	7382
880-5664-64	C-180	Total/NA	Solid	8021B	7382
880-5664-65	C-181	Total/NA	Solid	8021B	7382
880-5664-66	C-182	Total/NA	Solid	8021B	7382
880-5664-67	C-183	Total/NA	Solid	8021B	7382
880-5664-68	C-184	Total/NA	Solid	8021B	7382
880-5664-69	C-185	Total/NA	Solid	8021B	7382
880-5664-70	C-186	Total/NA	Solid	8021B	7382
880-5664-71	C-187	Total/NA	Solid	8021B	7382
880-5664-72	C-188	Total/NA	Solid	8021B	7382
880-5664-73	C-189	Total/NA	Solid	8021B	7382
880-5664-74	C-190	Total/NA	Solid	8021B	7382
880-5664-75	C-191	Total/NA	Solid	8021B	7382
880-5664-76	C-192	Total/NA	Solid	8021B	7382
880-5664-77	C-193	Total/NA	Solid	8021B	7382
880-5664-78	C-194	Total/NA	Solid	8021B	7382
880-5664-79	C-195	Total/NA	Solid	8021B	7382
880-5664-80	C-196	Total/NA	Solid	8021B	7382
MB 880-7382/5-A	Method Blank	Total/NA	Solid	8021B	7382
LCS 880-7382/1-A	Lab Control Sample	Total/NA	Solid	8021B	7382
LCSD 880-7382/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7382
880-5664-61 MS	C-177	Total/NA	Solid	8021B	7382
880-5664-61 MSD	C-177	Total/NA	Solid	8021B	7382

Prep Batch: 7447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-8	C-124	Total/NA	Solid	5035	
880-5664-30	C-146	Total/NA	Solid	5035	
MB 880-7447/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7447/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7447/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5735-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-5735-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

GC VOA

Analysis Batch: 7459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-8	C-124	Total/NA	Solid	8021B	7447
880-5664-30	C-146	Total/NA	Solid	8021B	7447
MB 880-7447/5-A	Method Blank	Total/NA	Solid	8021B	7447
LCS 880-7447/1-A	Lab Control Sample	Total/NA	Solid	8021B	7447
LCSD 880-7447/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7447
880-5735-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	7447
880-5735-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7447

GC Semi VOA

Analysis Batch: 7359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-81	C-197	Total/NA	Solid	8015B NM	7403
880-5664-82	C-198	Total/NA	Solid	8015B NM	7403
880-5664-83	C-199	Total/NA	Solid	8015B NM	7403
880-5664-84	C-200	Total/NA	Solid	8015B NM	7403
880-5664-85	C-201	Total/NA	Solid	8015B NM	7403
MB 880-7403/1-A	Method Blank	Total/NA	Solid	8015B NM	7403
LCS 880-7403/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7403
LCSD 880-7403/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7403
880-5664-81 MS	C-197	Total/NA	Solid	8015B NM	7403
880-5664-81 MSD	C-197	Total/NA	Solid	8015B NM	7403

Analysis Batch: 7361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-86	C-202	Total/NA	Solid	8015B NM	7387
MB 880-7387/1-A	Method Blank	Total/NA	Solid	8015B NM	7387
LCS 880-7387/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7387
LCSD 880-7387/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7387
880-5666-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	7387
880-5666-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7387

Prep Batch: 7387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-86	C-202	Total/NA	Solid	8015NM Prep	
MB 880-7387/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7387/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7387/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5666-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5666-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 7388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-1	C-117	Total/NA	Solid	8015NM Prep	
880-5664-2	C-118	Total/NA	Solid	8015NM Prep	
880-5664-3	C-119	Total/NA	Solid	8015NM Prep	
880-5664-4	C-120	Total/NA	Solid	8015NM Prep	
880-5664-5	C-121	Total/NA	Solid	8015NM Prep	
880-5664-6	C-122	Total/NA	Solid	8015NM Prep	
880-5664-7	C-123	Total/NA	Solid	8015NM Prep	
880-5664-8	C-124	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 7388 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-9	C-125	Total/NA	Solid	8015NM Prep	
880-5664-10	C-126	Total/NA	Solid	8015NM Prep	
880-5664-11	C-127	Total/NA	Solid	8015NM Prep	
880-5664-12	C-128	Total/NA	Solid	8015NM Prep	
880-5664-13	C-129	Total/NA	Solid	8015NM Prep	
880-5664-14	C-130	Total/NA	Solid	8015NM Prep	
880-5664-15	C-131	Total/NA	Solid	8015NM Prep	
880-5664-16	C-132	Total/NA	Solid	8015NM Prep	
880-5664-17	C-133	Total/NA	Solid	8015NM Prep	
880-5664-18	C-134	Total/NA	Solid	8015NM Prep	
880-5664-19	C-135	Total/NA	Solid	8015NM Prep	
880-5664-20	C-136	Total/NA	Solid	8015NM Prep	
MB 880-7388/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7388/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7388/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5664-1 MS	C-117	Total/NA	Solid	8015NM Prep	
880-5664-1 MSD	C-117	Total/NA	Solid	8015NM Prep	

Prep Batch: 7390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-21	C-137	Total/NA	Solid	8015NM Prep	
880-5664-22	C-138	Total/NA	Solid	8015NM Prep	
880-5664-23	C-139	Total/NA	Solid	8015NM Prep	
880-5664-24	C-140	Total/NA	Solid	8015NM Prep	
880-5664-25	C-141	Total/NA	Solid	8015NM Prep	
880-5664-26	C-142	Total/NA	Solid	8015NM Prep	
880-5664-27	C-143	Total/NA	Solid	8015NM Prep	
880-5664-28	C-144	Total/NA	Solid	8015NM Prep	
880-5664-29	C-145	Total/NA	Solid	8015NM Prep	
880-5664-30	C-146	Total/NA	Solid	8015NM Prep	
880-5664-31	C-147	Total/NA	Solid	8015NM Prep	
880-5664-32	C-148	Total/NA	Solid	8015NM Prep	
880-5664-33	C-149	Total/NA	Solid	8015NM Prep	
880-5664-34	C-150	Total/NA	Solid	8015NM Prep	
880-5664-35	C-151	Total/NA	Solid	8015NM Prep	
880-5664-36	C-152	Total/NA	Solid	8015NM Prep	
880-5664-37	C-153	Total/NA	Solid	8015NM Prep	
880-5664-38	C-154	Total/NA	Solid	8015NM Prep	
880-5664-39	C-155	Total/NA	Solid	8015NM Prep	
880-5664-40	C-156	Total/NA	Solid	8015NM Prep	
MB 880-7390/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7390/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7390/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5664-21 MS	C-137	Total/NA	Solid	8015NM Prep	
880-5664-21 MSD	C-137	Total/NA	Solid	8015NM Prep	

Prep Batch: 7398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-41	C-157	Total/NA	Solid	8015NM Prep	
880-5664-42	C-158	Total/NA	Solid	8015NM Prep	
880-5664-43	C-159	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 7398 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-44	C-160	Total/NA	Solid	8015NM Prep	
880-5664-45	C-161	Total/NA	Solid	8015NM Prep	
880-5664-46	C-162	Total/NA	Solid	8015NM Prep	
880-5664-47	C-163	Total/NA	Solid	8015NM Prep	
880-5664-48	C-164	Total/NA	Solid	8015NM Prep	
880-5664-49	C-165	Total/NA	Solid	8015NM Prep	
880-5664-50	C-166	Total/NA	Solid	8015NM Prep	
880-5664-51	C-167	Total/NA	Solid	8015NM Prep	
880-5664-52	C-168	Total/NA	Solid	8015NM Prep	
880-5664-53	C-169	Total/NA	Solid	8015NM Prep	
880-5664-54	C-170	Total/NA	Solid	8015NM Prep	
880-5664-55	C-171	Total/NA	Solid	8015NM Prep	
880-5664-56	C-172	Total/NA	Solid	8015NM Prep	
880-5664-57	C-173	Total/NA	Solid	8015NM Prep	
880-5664-58	C-174	Total/NA	Solid	8015NM Prep	
880-5664-59	C-175	Total/NA	Solid	8015NM Prep	
880-5664-60	C-176	Total/NA	Solid	8015NM Prep	
MB 880-7398/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7398/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5664-41 MS	C-157	Total/NA	Solid	8015NM Prep	
880-5664-41 MSD	C-157	Total/NA	Solid	8015NM Prep	

Prep Batch: 7400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-61	C-177	Total/NA	Solid	8015NM Prep	
880-5664-62	C-178	Total/NA	Solid	8015NM Prep	
880-5664-63	C-179	Total/NA	Solid	8015NM Prep	
880-5664-64	C-180	Total/NA	Solid	8015NM Prep	
880-5664-65	C-181	Total/NA	Solid	8015NM Prep	
880-5664-66	C-182	Total/NA	Solid	8015NM Prep	
880-5664-67	C-183	Total/NA	Solid	8015NM Prep	
880-5664-68	C-184	Total/NA	Solid	8015NM Prep	
880-5664-69	C-185	Total/NA	Solid	8015NM Prep	
880-5664-70	C-186	Total/NA	Solid	8015NM Prep	
880-5664-71	C-187	Total/NA	Solid	8015NM Prep	
880-5664-72	C-188	Total/NA	Solid	8015NM Prep	
880-5664-73	C-189	Total/NA	Solid	8015NM Prep	
880-5664-74	C-190	Total/NA	Solid	8015NM Prep	
880-5664-75	C-191	Total/NA	Solid	8015NM Prep	
880-5664-76	C-192	Total/NA	Solid	8015NM Prep	
880-5664-77	C-193	Total/NA	Solid	8015NM Prep	
880-5664-78	C-194	Total/NA	Solid	8015NM Prep	
880-5664-79	C-195	Total/NA	Solid	8015NM Prep	
880-5664-80	C-196	Total/NA	Solid	8015NM Prep	
MB 880-7400/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7400/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7400/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5664-61 MS	C-177	Total/NA	Solid	8015NM Prep	
880-5664-61 MSD	C-177	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 7403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-81	C-197	Total/NA	Solid	8015NM Prep	
880-5664-82	C-198	Total/NA	Solid	8015NM Prep	
880-5664-83	C-199	Total/NA	Solid	8015NM Prep	
880-5664-84	C-200	Total/NA	Solid	8015NM Prep	
880-5664-85	C-201	Total/NA	Solid	8015NM Prep	
MB 880-7403/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7403/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7403/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5664-81 MS	C-197	Total/NA	Solid	8015NM Prep	
880-5664-81 MSD	C-197	Total/NA	Solid	8015NM Prep	

Analysis Batch: 7421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-1	C-117	Total/NA	Solid	8015B NM	7388
880-5664-2	C-118	Total/NA	Solid	8015B NM	7388
880-5664-3	C-119	Total/NA	Solid	8015B NM	7388
880-5664-4	C-120	Total/NA	Solid	8015B NM	7388
880-5664-5	C-121	Total/NA	Solid	8015B NM	7388
880-5664-6	C-122	Total/NA	Solid	8015B NM	7388
880-5664-7	C-123	Total/NA	Solid	8015B NM	7388
880-5664-8	C-124	Total/NA	Solid	8015B NM	7388
880-5664-9	C-125	Total/NA	Solid	8015B NM	7388
880-5664-10	C-126	Total/NA	Solid	8015B NM	7388
880-5664-11	C-127	Total/NA	Solid	8015B NM	7388
880-5664-12	C-128	Total/NA	Solid	8015B NM	7388
880-5664-13	C-129	Total/NA	Solid	8015B NM	7388
880-5664-14	C-130	Total/NA	Solid	8015B NM	7388
880-5664-15	C-131	Total/NA	Solid	8015B NM	7388
880-5664-16	C-132	Total/NA	Solid	8015B NM	7388
880-5664-17	C-133	Total/NA	Solid	8015B NM	7388
880-5664-18	C-134	Total/NA	Solid	8015B NM	7388
880-5664-19	C-135	Total/NA	Solid	8015B NM	7388
880-5664-20	C-136	Total/NA	Solid	8015B NM	7388
MB 880-7388/1-A	Method Blank	Total/NA	Solid	8015B NM	7388
LCS 880-7388/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7388
LCSD 880-7388/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7388
880-5664-1 MS	C-117	Total/NA	Solid	8015B NM	7388
880-5664-1 MSD	C-117	Total/NA	Solid	8015B NM	7388

Analysis Batch: 7423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-21	C-137	Total/NA	Solid	8015B NM	7390
880-5664-22	C-138	Total/NA	Solid	8015B NM	7390
880-5664-23	C-139	Total/NA	Solid	8015B NM	7390
880-5664-24	C-140	Total/NA	Solid	8015B NM	7390
880-5664-25	C-141	Total/NA	Solid	8015B NM	7390
880-5664-26	C-142	Total/NA	Solid	8015B NM	7390
880-5664-27	C-143	Total/NA	Solid	8015B NM	7390
880-5664-28	C-144	Total/NA	Solid	8015B NM	7390
880-5664-29	C-145	Total/NA	Solid	8015B NM	7390
880-5664-30	C-146	Total/NA	Solid	8015B NM	7390

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 7423 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-31	C-147	Total/NA	Solid	8015B NM	7390
880-5664-32	C-148	Total/NA	Solid	8015B NM	7390
880-5664-33	C-149	Total/NA	Solid	8015B NM	7390
880-5664-34	C-150	Total/NA	Solid	8015B NM	7390
880-5664-35	C-151	Total/NA	Solid	8015B NM	7390
880-5664-36	C-152	Total/NA	Solid	8015B NM	7390
880-5664-37	C-153	Total/NA	Solid	8015B NM	7390
880-5664-38	C-154	Total/NA	Solid	8015B NM	7390
880-5664-39	C-155	Total/NA	Solid	8015B NM	7390
880-5664-40	C-156	Total/NA	Solid	8015B NM	7390
MB 880-7390/1-A	Method Blank	Total/NA	Solid	8015B NM	7390
LCS 880-7390/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7390
LCSD 880-7390/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7390
880-5664-21 MS	C-137	Total/NA	Solid	8015B NM	7390
880-5664-21 MSD	C-137	Total/NA	Solid	8015B NM	7390

Analysis Batch: 7425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-41	C-157	Total/NA	Solid	8015B NM	7398
880-5664-42	C-158	Total/NA	Solid	8015B NM	7398
880-5664-43	C-159	Total/NA	Solid	8015B NM	7398
880-5664-44	C-160	Total/NA	Solid	8015B NM	7398
880-5664-45	C-161	Total/NA	Solid	8015B NM	7398
880-5664-46	C-162	Total/NA	Solid	8015B NM	7398
880-5664-47	C-163	Total/NA	Solid	8015B NM	7398
880-5664-48	C-164	Total/NA	Solid	8015B NM	7398
880-5664-49	C-165	Total/NA	Solid	8015B NM	7398
880-5664-50	C-166	Total/NA	Solid	8015B NM	7398
880-5664-51	C-167	Total/NA	Solid	8015B NM	7398
880-5664-52	C-168	Total/NA	Solid	8015B NM	7398
880-5664-53	C-169	Total/NA	Solid	8015B NM	7398
880-5664-54	C-170	Total/NA	Solid	8015B NM	7398
880-5664-55	C-171	Total/NA	Solid	8015B NM	7398
880-5664-56	C-172	Total/NA	Solid	8015B NM	7398
880-5664-57	C-173	Total/NA	Solid	8015B NM	7398
880-5664-58	C-174	Total/NA	Solid	8015B NM	7398
880-5664-59	C-175	Total/NA	Solid	8015B NM	7398
880-5664-60	C-176	Total/NA	Solid	8015B NM	7398
MB 880-7398/1-A	Method Blank	Total/NA	Solid	8015B NM	7398
LCS 880-7398/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7398
LCSD 880-7398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7398
880-5664-41 MS	C-157	Total/NA	Solid	8015B NM	7398
880-5664-41 MSD	C-157	Total/NA	Solid	8015B NM	7398

Analysis Batch: 7427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-61	C-177	Total/NA	Solid	8015B NM	7400
880-5664-62	C-178	Total/NA	Solid	8015B NM	7400
880-5664-63	C-179	Total/NA	Solid	8015B NM	7400
880-5664-64	C-180	Total/NA	Solid	8015B NM	7400
880-5664-65	C-181	Total/NA	Solid	8015B NM	7400

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 7427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-66	C-182	Total/NA	Solid	8015B NM	7400
880-5664-67	C-183	Total/NA	Solid	8015B NM	7400
880-5664-68	C-184	Total/NA	Solid	8015B NM	7400
880-5664-69	C-185	Total/NA	Solid	8015B NM	7400
880-5664-70	C-186	Total/NA	Solid	8015B NM	7400
880-5664-71	C-187	Total/NA	Solid	8015B NM	7400
880-5664-72	C-188	Total/NA	Solid	8015B NM	7400
880-5664-73	C-189	Total/NA	Solid	8015B NM	7400
880-5664-74	C-190	Total/NA	Solid	8015B NM	7400
880-5664-75	C-191	Total/NA	Solid	8015B NM	7400
880-5664-76	C-192	Total/NA	Solid	8015B NM	7400
880-5664-77	C-193	Total/NA	Solid	8015B NM	7400
880-5664-78	C-194	Total/NA	Solid	8015B NM	7400
880-5664-79	C-195	Total/NA	Solid	8015B NM	7400
880-5664-80	C-196	Total/NA	Solid	8015B NM	7400
MB 880-7400/1-A	Method Blank	Total/NA	Solid	8015B NM	7400
LCS 880-7400/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7400
LCSD 880-7400/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7400
880-5664-61 MS	C-177	Total/NA	Solid	8015B NM	7400
880-5664-61 MSD	C-177	Total/NA	Solid	8015B NM	7400

HPLC/IC

Leach Batch: 7391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-42	C-158	Soluble	Solid	DI Leach	
880-5664-43	C-159	Soluble	Solid	DI Leach	
880-5664-44	C-160	Soluble	Solid	DI Leach	
880-5664-45	C-161	Soluble	Solid	DI Leach	
880-5664-46	C-162	Soluble	Solid	DI Leach	
880-5664-47	C-163	Soluble	Solid	DI Leach	
880-5664-48	C-164	Soluble	Solid	DI Leach	
MB 880-7391/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7391/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7391/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5662-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-5662-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 7392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-49	C-165	Soluble	Solid	DI Leach	
880-5664-50	C-166	Soluble	Solid	DI Leach	
880-5664-51	C-167	Soluble	Solid	DI Leach	
880-5664-52	C-168	Soluble	Solid	DI Leach	
880-5664-53	C-169	Soluble	Solid	DI Leach	
880-5664-54	C-170	Soluble	Solid	DI Leach	
880-5664-55	C-171	Soluble	Solid	DI Leach	
880-5664-56	C-172	Soluble	Solid	DI Leach	
880-5664-57	C-173	Soluble	Solid	DI Leach	
880-5664-58	C-174	Soluble	Solid	DI Leach	
880-5664-59	C-175	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 7392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-60	C-176	Soluble	Solid	DI Leach	
880-5664-61	C-177	Soluble	Solid	DI Leach	
880-5664-62	C-178	Soluble	Solid	DI Leach	
880-5664-63	C-179	Soluble	Solid	DI Leach	
880-5664-64	C-180	Soluble	Solid	DI Leach	
880-5664-65	C-181	Soluble	Solid	DI Leach	
880-5664-66	C-182	Soluble	Solid	DI Leach	
880-5664-67	C-183	Soluble	Solid	DI Leach	
880-5664-68	C-184	Soluble	Solid	DI Leach	
MB 880-7392/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7392/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7392/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5664-49 MS	C-165	Soluble	Solid	DI Leach	
880-5664-49 MSD	C-165	Soluble	Solid	DI Leach	
880-5664-59 MS	C-175	Soluble	Solid	DI Leach	
880-5664-59 MSD	C-175	Soluble	Solid	DI Leach	

Leach Batch: 7393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-69	C-185	Soluble	Solid	DI Leach	
880-5664-70	C-186	Soluble	Solid	DI Leach	
880-5664-71	C-187	Soluble	Solid	DI Leach	
880-5664-72	C-188	Soluble	Solid	DI Leach	
880-5664-73	C-189	Soluble	Solid	DI Leach	
880-5664-74	C-190	Soluble	Solid	DI Leach	
880-5664-75	C-191	Soluble	Solid	DI Leach	
880-5664-76	C-192	Soluble	Solid	DI Leach	
880-5664-77	C-193	Soluble	Solid	DI Leach	
880-5664-78	C-194	Soluble	Solid	DI Leach	
880-5664-79	C-195	Soluble	Solid	DI Leach	
880-5664-80	C-196	Soluble	Solid	DI Leach	
880-5664-81	C-197	Soluble	Solid	DI Leach	
880-5664-82	C-198	Soluble	Solid	DI Leach	
880-5664-83	C-199	Soluble	Solid	DI Leach	
880-5664-84	C-200	Soluble	Solid	DI Leach	
880-5664-85	C-201	Soluble	Solid	DI Leach	
880-5664-86	C-202	Soluble	Solid	DI Leach	
MB 880-7393/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7393/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7393/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5664-77 MS	C-193	Soluble	Solid	DI Leach	
880-5664-77 MSD	C-193	Soluble	Solid	DI Leach	

Leach Batch: 7394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-1	C-117	Soluble	Solid	DI Leach	
880-5664-2	C-118	Soluble	Solid	DI Leach	
880-5664-3	C-119	Soluble	Solid	DI Leach	
880-5664-4	C-120	Soluble	Solid	DI Leach	
880-5664-5	C-121	Soluble	Solid	DI Leach	
880-5664-6	C-122	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 7394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-7	C-123	Soluble	Solid	DI Leach	
880-5664-8	C-124	Soluble	Solid	DI Leach	
880-5664-9	C-125	Soluble	Solid	DI Leach	
880-5664-10	C-126	Soluble	Solid	DI Leach	
880-5664-11	C-127	Soluble	Solid	DI Leach	
880-5664-12	C-128	Soluble	Solid	DI Leach	
880-5664-13	C-129	Soluble	Solid	DI Leach	
880-5664-14	C-130	Soluble	Solid	DI Leach	
MB 880-7394/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7394/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7394/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5664-5 MS	C-121	Soluble	Solid	DI Leach	
880-5664-5 MSD	C-121	Soluble	Solid	DI Leach	

Leach Batch: 7395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-15	C-131	Soluble	Solid	DI Leach	
880-5664-16	C-132	Soluble	Solid	DI Leach	
880-5664-17	C-133	Soluble	Solid	DI Leach	
880-5664-18	C-134	Soluble	Solid	DI Leach	
880-5664-19	C-135	Soluble	Solid	DI Leach	
880-5664-20	C-136	Soluble	Solid	DI Leach	
880-5664-21	C-137	Soluble	Solid	DI Leach	
880-5664-22	C-138	Soluble	Solid	DI Leach	
880-5664-23	C-139	Soluble	Solid	DI Leach	
880-5664-24	C-140	Soluble	Solid	DI Leach	
880-5664-25	C-141	Soluble	Solid	DI Leach	
880-5664-26	C-142	Soluble	Solid	DI Leach	
880-5664-27	C-143	Soluble	Solid	DI Leach	
880-5664-28	C-144	Soluble	Solid	DI Leach	
880-5664-29	C-145	Soluble	Solid	DI Leach	
880-5664-30	C-146	Soluble	Solid	DI Leach	
880-5664-31	C-147	Soluble	Solid	DI Leach	
880-5664-32	C-148	Soluble	Solid	DI Leach	
880-5664-33	C-149	Soluble	Solid	DI Leach	
880-5664-34	C-150	Soluble	Solid	DI Leach	
MB 880-7395/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7395/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7395/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5664-15 MS	C-131	Soluble	Solid	DI Leach	
880-5664-15 MSD	C-131	Soluble	Solid	DI Leach	
880-5664-25 MS	C-141	Soluble	Solid	DI Leach	
880-5664-25 MSD	C-141	Soluble	Solid	DI Leach	

Leach Batch: 7399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-35	C-151	Soluble	Solid	DI Leach	
880-5664-36	C-152	Soluble	Solid	DI Leach	
880-5664-37	C-153	Soluble	Solid	DI Leach	
880-5664-38	C-154	Soluble	Solid	DI Leach	
880-5664-39	C-155	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 7399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-40	C-156	Soluble	Solid	DI Leach	
880-5664-41	C-157	Soluble	Solid	DI Leach	
MB 880-7399/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7399/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7399/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5664-36 MS	C-152	Soluble	Solid	DI Leach	
880-5664-36 MSD	C-152	Soluble	Solid	DI Leach	

Analysis Batch: 7411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-42	C-158	Soluble	Solid	300.0	7391
880-5664-43	C-159	Soluble	Solid	300.0	7391
880-5664-44	C-160	Soluble	Solid	300.0	7391
880-5664-45	C-161	Soluble	Solid	300.0	7391
880-5664-46	C-162	Soluble	Solid	300.0	7391
880-5664-47	C-163	Soluble	Solid	300.0	7391
880-5664-48	C-164	Soluble	Solid	300.0	7391
MB 880-7391/1-A	Method Blank	Soluble	Solid	300.0	7391
LCS 880-7391/2-A	Lab Control Sample	Soluble	Solid	300.0	7391
LCSD 880-7391/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7391
880-5662-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	7391
880-5662-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7391

Analysis Batch: 7412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-69	C-185	Soluble	Solid	300.0	7393
880-5664-70	C-186	Soluble	Solid	300.0	7393
880-5664-71	C-187	Soluble	Solid	300.0	7393
880-5664-72	C-188	Soluble	Solid	300.0	7393
880-5664-73	C-189	Soluble	Solid	300.0	7393
880-5664-74	C-190	Soluble	Solid	300.0	7393
880-5664-75	C-191	Soluble	Solid	300.0	7393
880-5664-76	C-192	Soluble	Solid	300.0	7393
880-5664-77	C-193	Soluble	Solid	300.0	7393
880-5664-78	C-194	Soluble	Solid	300.0	7393
880-5664-79	C-195	Soluble	Solid	300.0	7393
880-5664-80	C-196	Soluble	Solid	300.0	7393
880-5664-81	C-197	Soluble	Solid	300.0	7393
880-5664-82	C-198	Soluble	Solid	300.0	7393
880-5664-83	C-199	Soluble	Solid	300.0	7393
880-5664-84	C-200	Soluble	Solid	300.0	7393
880-5664-85	C-201	Soluble	Solid	300.0	7393
880-5664-86	C-202	Soluble	Solid	300.0	7393
MB 880-7393/1-A	Method Blank	Soluble	Solid	300.0	7393
LCS 880-7393/2-A	Lab Control Sample	Soluble	Solid	300.0	7393
LCSD 880-7393/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7393
880-5664-77 MS	C-193	Soluble	Solid	300.0	7393
880-5664-77 MSD	C-193	Soluble	Solid	300.0	7393

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 7413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-35	C-151	Soluble	Solid	300.0	7399
880-5664-36	C-152	Soluble	Solid	300.0	7399
880-5664-37	C-153	Soluble	Solid	300.0	7399
880-5664-38	C-154	Soluble	Solid	300.0	7399
880-5664-39	C-155	Soluble	Solid	300.0	7399
880-5664-40	C-156	Soluble	Solid	300.0	7399
880-5664-41	C-157	Soluble	Solid	300.0	7399
MB 880-7399/1-A	Method Blank	Soluble	Solid	300.0	7399
LCS 880-7399/2-A	Lab Control Sample	Soluble	Solid	300.0	7399
LCSD 880-7399/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7399
880-5664-36 MS	C-152	Soluble	Solid	300.0	7399
880-5664-36 MSD	C-152	Soluble	Solid	300.0	7399

Analysis Batch: 7452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-49	C-165	Soluble	Solid	300.0	7392
880-5664-50	C-166	Soluble	Solid	300.0	7392
880-5664-51	C-167	Soluble	Solid	300.0	7392
880-5664-52	C-168	Soluble	Solid	300.0	7392
880-5664-53	C-169	Soluble	Solid	300.0	7392
880-5664-54	C-170	Soluble	Solid	300.0	7392
880-5664-55	C-171	Soluble	Solid	300.0	7392
880-5664-56	C-172	Soluble	Solid	300.0	7392
880-5664-57	C-173	Soluble	Solid	300.0	7392
880-5664-58	C-174	Soluble	Solid	300.0	7392
880-5664-59	C-175	Soluble	Solid	300.0	7392
880-5664-60	C-176	Soluble	Solid	300.0	7392
880-5664-61	C-177	Soluble	Solid	300.0	7392
880-5664-62	C-178	Soluble	Solid	300.0	7392
880-5664-63	C-179	Soluble	Solid	300.0	7392
880-5664-64	C-180	Soluble	Solid	300.0	7392
880-5664-65	C-181	Soluble	Solid	300.0	7392
880-5664-66	C-182	Soluble	Solid	300.0	7392
880-5664-67	C-183	Soluble	Solid	300.0	7392
880-5664-68	C-184	Soluble	Solid	300.0	7392
MB 880-7392/1-A	Method Blank	Soluble	Solid	300.0	7392
LCS 880-7392/2-A	Lab Control Sample	Soluble	Solid	300.0	7392
LCSD 880-7392/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7392
880-5664-49 MS	C-165	Soluble	Solid	300.0	7392
880-5664-49 MSD	C-165	Soluble	Solid	300.0	7392
880-5664-59 MS	C-175	Soluble	Solid	300.0	7392
880-5664-59 MSD	C-175	Soluble	Solid	300.0	7392

Analysis Batch: 7453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-1	C-117	Soluble	Solid	300.0	7394
880-5664-2	C-118	Soluble	Solid	300.0	7394
880-5664-3	C-119	Soluble	Solid	300.0	7394
880-5664-4	C-120	Soluble	Solid	300.0	7394
880-5664-5	C-121	Soluble	Solid	300.0	7394
880-5664-6	C-122	Soluble	Solid	300.0	7394

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 7453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-7	C-123	Soluble	Solid	300.0	7394
880-5664-8	C-124	Soluble	Solid	300.0	7394
880-5664-9	C-125	Soluble	Solid	300.0	7394
880-5664-10	C-126	Soluble	Solid	300.0	7394
880-5664-11	C-127	Soluble	Solid	300.0	7394
880-5664-12	C-128	Soluble	Solid	300.0	7394
880-5664-13	C-129	Soluble	Solid	300.0	7394
880-5664-14	C-130	Soluble	Solid	300.0	7394
MB 880-7394/1-A	Method Blank	Soluble	Solid	300.0	7394
LCS 880-7394/2-A	Lab Control Sample	Soluble	Solid	300.0	7394
LCSD 880-7394/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7394
880-5664-5 MS	C-121	Soluble	Solid	300.0	7394
880-5664-5 MSD	C-121	Soluble	Solid	300.0	7394

Analysis Batch: 7454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5664-15	C-131	Soluble	Solid	300.0	7395
880-5664-16	C-132	Soluble	Solid	300.0	7395
880-5664-17	C-133	Soluble	Solid	300.0	7395
880-5664-18	C-134	Soluble	Solid	300.0	7395
880-5664-19	C-135	Soluble	Solid	300.0	7395
880-5664-20	C-136	Soluble	Solid	300.0	7395
880-5664-21	C-137	Soluble	Solid	300.0	7395
880-5664-22	C-138	Soluble	Solid	300.0	7395
880-5664-23	C-139	Soluble	Solid	300.0	7395
880-5664-24	C-140	Soluble	Solid	300.0	7395
880-5664-25	C-141	Soluble	Solid	300.0	7395
880-5664-26	C-142	Soluble	Solid	300.0	7395
880-5664-27	C-143	Soluble	Solid	300.0	7395
880-5664-28	C-144	Soluble	Solid	300.0	7395
880-5664-29	C-145	Soluble	Solid	300.0	7395
880-5664-30	C-146	Soluble	Solid	300.0	7395
880-5664-31	C-147	Soluble	Solid	300.0	7395
880-5664-32	C-148	Soluble	Solid	300.0	7395
880-5664-33	C-149	Soluble	Solid	300.0	7395
880-5664-34	C-150	Soluble	Solid	300.0	7395
MB 880-7395/1-A	Method Blank	Soluble	Solid	300.0	7395
LCS 880-7395/2-A	Lab Control Sample	Soluble	Solid	300.0	7395
LCSD 880-7395/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7395
880-5664-15 MS	C-131	Soluble	Solid	300.0	7395
880-5664-15 MSD	C-131	Soluble	Solid	300.0	7395
880-5664-25 MS	C-141	Soluble	Solid	300.0	7395
880-5664-25 MSD	C-141	Soluble	Solid	300.0	7395

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-117

Lab Sample ID: 880-5664-1

Date Collected: 08/25/21 13:17

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 12:51	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 12:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 22:06	SC	XEN MID

Client Sample ID: C-118

Lab Sample ID: 880-5664-2

Date Collected: 08/25/21 13:18

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 13:11	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 13:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 22:12	SC	XEN MID

Client Sample ID: C-119

Lab Sample ID: 880-5664-3

Date Collected: 08/25/21 13:19

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 13:32	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 13:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 22:17	SC	XEN MID

Client Sample ID: C-120

Lab Sample ID: 880-5664-4

Date Collected: 08/25/21 13:20

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 13:52	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 14:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 22:23	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-121

Lab Sample ID: 880-5664-5

Date Collected: 08/25/21 13:21

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 14:13	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 22:29	SC	XEN MID

Client Sample ID: C-122

Lab Sample ID: 880-5664-6

Date Collected: 08/25/21 13:22

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 14:33	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 14:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 22:46	SC	XEN MID

Client Sample ID: C-123

Lab Sample ID: 880-5664-7

Date Collected: 08/25/21 13:23

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 14:53	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 15:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 22:51	SC	XEN MID

Client Sample ID: C-124

Lab Sample ID: 880-5664-8

Date Collected: 08/25/21 13:24

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7447	09/02/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7459	09/03/21 01:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 15:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 23:08	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-125

Lab Sample ID: 880-5664-9

Date Collected: 08/25/21 13:25

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 15:34	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 15:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 23:14	SC	XEN MID

Client Sample ID: C-126

Lab Sample ID: 880-5664-10

Date Collected: 08/25/21 13:26

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 15:54	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 16:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 23:19	SC	XEN MID

Client Sample ID: C-127

Lab Sample ID: 880-5664-11

Date Collected: 08/25/21 13:27

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 17:45	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 23:25	SC	XEN MID

Client Sample ID: C-128

Lab Sample ID: 880-5664-12

Date Collected: 08/25/21 13:28

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 18:05	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 23:31	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-129

Lab Sample ID: 880-5664-13

Date Collected: 08/25/21 13:29

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 18:26	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 23:36	SC	XEN MID

Client Sample ID: C-130

Lab Sample ID: 880-5664-14

Date Collected: 08/25/21 13:30

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 18:46	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 18:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7394	09/01/21 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			7453	09/02/21 23:42	SC	XEN MID

Client Sample ID: C-131

Lab Sample ID: 880-5664-15

Date Collected: 08/25/21 13:31

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 19:07	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 18:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 20:07	SC	XEN MID

Client Sample ID: C-132

Lab Sample ID: 880-5664-16

Date Collected: 08/25/21 13:32

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 19:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 18:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 20:24	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-133

Lab Sample ID: 880-5664-17

Date Collected: 08/25/21 13:33

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 19:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 19:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 20:29	SC	XEN MID

Client Sample ID: C-134

Lab Sample ID: 880-5664-18

Date Collected: 08/25/21 13:34

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 20:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 20:35	SC	XEN MID

Client Sample ID: C-135

Lab Sample ID: 880-5664-19

Date Collected: 08/25/21 13:35

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 20:28	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 19:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 20:40	SC	XEN MID

Client Sample ID: C-136

Lab Sample ID: 880-5664-20

Date Collected: 08/25/21 13:36

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7365	09/01/21 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/01/21 20:49	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7388	09/01/21 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7421	09/02/21 20:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 20:57	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-137

Lab Sample ID: 880-5664-21

Date Collected: 08/25/21 13:37

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 13:30	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 12:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 21:03	SC	XEN MID

Client Sample ID: C-138

Lab Sample ID: 880-5664-22

Date Collected: 08/25/21 13:38

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 13:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 13:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 21:08	SC	XEN MID

Client Sample ID: C-139

Lab Sample ID: 880-5664-23

Date Collected: 08/25/21 13:39

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 14:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 13:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 21:14	SC	XEN MID

Client Sample ID: C-140

Lab Sample ID: 880-5664-24

Date Collected: 08/25/21 13:40

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 14:49	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 14:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 21:20	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-141**Lab Sample ID: 880-5664-25****Date Collected: 08/25/21 13:41****Matrix: Solid****Date Received: 08/31/21 14:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 15:15	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 21:25	SC	XEN MID

Client Sample ID: C-142**Lab Sample ID: 880-5664-26****Date Collected: 08/25/21 13:42****Matrix: Solid****Date Received: 08/31/21 14:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 15:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 14:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 21:42	SC	XEN MID

Client Sample ID: C-143**Lab Sample ID: 880-5664-27****Date Collected: 08/25/21 13:43****Matrix: Solid****Date Received: 08/31/21 14:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 16:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 15:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 21:48	SC	XEN MID

Client Sample ID: C-144**Lab Sample ID: 880-5664-28****Date Collected: 08/25/21 13:44****Matrix: Solid****Date Received: 08/31/21 14:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 16:34	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 15:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 22:04	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-145

Lab Sample ID: 880-5664-29

Date Collected: 08/25/21 13:45

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 17:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 15:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7395	09/01/21 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 22:10	SC	XEN MID

Client Sample ID: C-146

Lab Sample ID: 880-5664-30

Date Collected: 08/25/21 13:46

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7447	09/02/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7459	09/03/21 02:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 16:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7395	09/01/21 11:51	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 22:16	SC	XEN MID

Client Sample ID: C-147

Lab Sample ID: 880-5664-31

Date Collected: 08/25/21 13:47

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 19:12	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7395	09/01/21 11:51	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 22:21	SC	XEN MID

Client Sample ID: C-148

Lab Sample ID: 880-5664-32

Date Collected: 08/25/21 13:48

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 19:38	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7395	09/01/21 11:51	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 22:27	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-149

Lab Sample ID: 880-5664-33

Date Collected: 08/25/21 13:49

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 20:05	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7395	09/01/21 11:51	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 22:32	SC	XEN MID

Client Sample ID: C-150

Lab Sample ID: 880-5664-34

Date Collected: 08/25/21 13:50

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 20:31	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 18:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7395	09/01/21 11:51	SC	XEN MID
Soluble	Analysis	300.0		1			7454	09/03/21 22:38	SC	XEN MID

Client Sample ID: C-151

Lab Sample ID: 880-5664-35

Date Collected: 08/25/21 13:51

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 20:58	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 18:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7399	09/01/21 13:51	CH	XEN MID
Soluble	Analysis	300.0		1			7413	09/01/21 18:47	CH	XEN MID

Client Sample ID: C-152

Lab Sample ID: 880-5664-36

Date Collected: 08/25/21 13:52

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 21:24	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 18:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7399	09/01/21 13:51	CH	XEN MID
Soluble	Analysis	300.0		1			7413	09/01/21 18:53	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-153

Lab Sample ID: 880-5664-37

Date Collected: 08/25/21 13:53

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 21:51	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 19:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7399	09/01/21 13:51	CH	XEN MID
Soluble	Analysis	300.0		1			7413	09/01/21 19:08	CH	XEN MID

Client Sample ID: C-154

Lab Sample ID: 880-5664-38

Date Collected: 08/25/21 13:54

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 22:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7399	09/01/21 13:51	CH	XEN MID
Soluble	Analysis	300.0		1			7413	09/01/21 19:14	CH	XEN MID

Client Sample ID: C-155

Lab Sample ID: 880-5664-39

Date Collected: 08/25/21 13:55

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 22:44	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 19:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7399	09/01/21 13:51	CH	XEN MID
Soluble	Analysis	300.0		1			7413	09/01/21 19:29	CH	XEN MID

Client Sample ID: C-156

Lab Sample ID: 880-5664-40

Date Collected: 08/26/21 14:00

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7367	09/01/21 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7419	09/02/21 23:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7390	09/01/21 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7423	09/02/21 20:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7399	09/01/21 13:51	CH	XEN MID
Soluble	Analysis	300.0		1			7413	09/01/21 19:35	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-157

Lab Sample ID: 880-5664-41

Date Collected: 08/26/21 14:01

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 12:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 12:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7399	09/01/21 13:51	CH	XEN MID
Soluble	Analysis	300.0		1			7413	09/01/21 19:40	CH	XEN MID

Client Sample ID: C-158

Lab Sample ID: 880-5664-42

Date Collected: 08/26/21 14:02

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 12:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 13:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7391	09/01/21 11:31	SC	XEN MID
Soluble	Analysis	300.0		1			7411	09/01/21 23:00	CH	XEN MID

Client Sample ID: C-159

Lab Sample ID: 880-5664-43

Date Collected: 08/26/21 14:03

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 13:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 13:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7391	09/01/21 11:31	SC	XEN MID
Soluble	Analysis	300.0		1			7411	09/01/21 23:12	CH	XEN MID

Client Sample ID: C-160

Lab Sample ID: 880-5664-44

Date Collected: 08/26/21 14:04

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 13:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 13:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7391	09/01/21 11:31	SC	XEN MID
Soluble	Analysis	300.0		1			7411	09/01/21 23:23	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-161

Lab Sample ID: 880-5664-45

Date Collected: 08/26/21 14:05

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 13:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 14:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7391	09/01/21 11:31	SC	XEN MID
Soluble	Analysis	300.0		1			7411	09/01/21 23:34	CH	XEN MID

Client Sample ID: C-162

Lab Sample ID: 880-5664-46

Date Collected: 08/26/21 14:06

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 14:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 14:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7391	09/01/21 11:31	SC	XEN MID
Soluble	Analysis	300.0		1			7411	09/01/21 23:45	CH	XEN MID

Client Sample ID: C-163

Lab Sample ID: 880-5664-47

Date Collected: 08/26/21 14:07

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 14:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 15:04	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7391	09/01/21 11:31	SC	XEN MID
Soluble	Analysis	300.0		1			7411	09/01/21 23:56	CH	XEN MID

Client Sample ID: C-164

Lab Sample ID: 880-5664-48

Date Collected: 08/26/21 14:08

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 14:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 15:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7391	09/01/21 11:31	SC	XEN MID
Soluble	Analysis	300.0		1			7411	09/02/21 00:07	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-165

Lab Sample ID: 880-5664-49

Date Collected: 08/26/21 14:09

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 15:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 15:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 17:51	SC	XEN MID

Client Sample ID: C-166

Lab Sample ID: 880-5664-50

Date Collected: 08/26/21 14:10

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 15:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 16:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 18:08	SC	XEN MID

Client Sample ID: C-167

Lab Sample ID: 880-5664-51

Date Collected: 08/26/21 14:11

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 17:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 16:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 18:14	SC	XEN MID

Client Sample ID: C-168

Lab Sample ID: 880-5664-52

Date Collected: 08/26/21 14:12

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 17:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 17:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 18:19	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-169**Lab Sample ID: 880-5664-53****Date Collected: 08/26/21 14:13****Matrix: Solid****Date Received: 08/31/21 14:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 17:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 17:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 18:25	SC	XEN MID

Client Sample ID: C-170**Lab Sample ID: 880-5664-54****Date Collected: 08/26/21 14:14****Matrix: Solid****Date Received: 08/31/21 14:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 18:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 17:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 18:42	SC	XEN MID

Client Sample ID: C-171**Lab Sample ID: 880-5664-55****Date Collected: 08/26/21 14:15****Matrix: Solid****Date Received: 08/31/21 14:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 18:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 18:48	SC	XEN MID

Client Sample ID: C-172**Lab Sample ID: 880-5664-56****Date Collected: 08/26/21 14:16****Matrix: Solid****Date Received: 08/31/21 14:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 18:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 18:53	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-173

Lab Sample ID: 880-5664-57

Date Collected: 08/26/21 14:17

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 19:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 18:59	SC	XEN MID

Client Sample ID: C-174

Lab Sample ID: 880-5664-58

Date Collected: 08/26/21 14:18

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 19:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 19:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 19:05	SC	XEN MID

Client Sample ID: C-175

Lab Sample ID: 880-5664-59

Date Collected: 08/26/21 14:19

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 19:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 19:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 19:10	SC	XEN MID

Client Sample ID: C-176

Lab Sample ID: 880-5664-60

Date Collected: 08/26/21 14:20

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7381	09/01/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7418	09/02/21 20:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7398	09/01/21 13:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7425	09/02/21 20:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 19:27	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-177

Lab Sample ID: 880-5664-61

Date Collected: 08/26/21 14:21

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 14:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 12:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 19:33	SC	XEN MID

Client Sample ID: C-178

Lab Sample ID: 880-5664-62

Date Collected: 08/26/21 14:22

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 14:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 13:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 19:50	SC	XEN MID

Client Sample ID: C-179

Lab Sample ID: 880-5664-63

Date Collected: 08/26/21 14:23

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 15:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 13:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 19:56	SC	XEN MID

Client Sample ID: C-180

Lab Sample ID: 880-5664-64

Date Collected: 08/26/21 14:24

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 15:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 13:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 20:01	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-181

Lab Sample ID: 880-5664-65

Date Collected: 08/26/21 14:25

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 15:49	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 14:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 20:07	SC	XEN MID

Client Sample ID: C-182

Lab Sample ID: 880-5664-66

Date Collected: 08/26/21 14:26

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 16:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 14:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 20:13	SC	XEN MID

Client Sample ID: C-183

Lab Sample ID: 880-5664-67

Date Collected: 08/26/21 14:27

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 16:30	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 15:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 20:18	SC	XEN MID

Client Sample ID: C-184

Lab Sample ID: 880-5664-68

Date Collected: 08/26/21 14:28

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 16:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 15:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	7392	09/01/21 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			7452	09/02/21 20:24	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-185

Lab Sample ID: 880-5664-69

Date Collected: 08/26/21 14:29

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 17:11	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 15:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 02:21	CH	XEN MID

Client Sample ID: C-186

Lab Sample ID: 880-5664-70

Date Collected: 08/26/21 14:30

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 17:31	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 16:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 02:33	CH	XEN MID

Client Sample ID: C-187

Lab Sample ID: 880-5664-71

Date Collected: 08/26/21 14:31

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 19:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 16:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 02:44	CH	XEN MID

Client Sample ID: C-188

Lab Sample ID: 880-5664-72

Date Collected: 08/26/21 14:32

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 19:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 17:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 03:17	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-189

Lab Sample ID: 880-5664-73

Date Collected: 08/26/21 14:33

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 20:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 17:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 03:28	CH	XEN MID

Client Sample ID: C-190

Lab Sample ID: 880-5664-74

Date Collected: 08/26/21 14:34

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 20:22	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 17:58	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 03:39	CH	XEN MID

Client Sample ID: C-191

Lab Sample ID: 880-5664-75

Date Collected: 08/26/21 14:35

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 20:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 03:51	CH	XEN MID

Client Sample ID: C-192

Lab Sample ID: 880-5664-76

Date Collected: 08/26/21 14:36

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 21:03	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 04:02	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-193

Lab Sample ID: 880-5664-77

Date Collected: 08/26/21 14:37

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 21:24	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 04:13	CH	XEN MID

Client Sample ID: C-194

Lab Sample ID: 880-5664-78

Date Collected: 08/26/21 14:38

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 21:44	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 19:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 04:46	CH	XEN MID

Client Sample ID: C-195

Lab Sample ID: 880-5664-79

Date Collected: 08/26/21 14:39

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 22:04	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 19:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 04:58	CH	XEN MID

Client Sample ID: C-196

Lab Sample ID: 880-5664-80

Date Collected: 08/26/21 14:40

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7382	09/01/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7420	09/02/21 22:25	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7400	09/01/21 13:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7427	09/02/21 20:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 05:31	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-197

Lab Sample ID: 880-5664-81

Date Collected: 08/26/21 14:41

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7262	09/01/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7384	09/01/21 19:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7403	09/01/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/01/21 22:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 05:42	CH	XEN MID

Client Sample ID: C-198

Lab Sample ID: 880-5664-82

Date Collected: 08/26/21 14:42

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7262	09/01/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7384	09/01/21 19:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7403	09/01/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/01/21 23:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 05:53	CH	XEN MID

Client Sample ID: C-199

Lab Sample ID: 880-5664-83

Date Collected: 08/26/21 14:43

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7262	09/01/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7384	09/01/21 19:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7403	09/01/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/02/21 00:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 06:05	CH	XEN MID

Client Sample ID: C-200

Lab Sample ID: 880-5664-84

Date Collected: 08/26/21 14:44

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	7262	09/01/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7384	09/01/21 20:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7403	09/01/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/02/21 00:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		5			7412	09/02/21 06:16	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Client Sample ID: C-201

Lab Sample ID: 880-5664-85

Date Collected: 08/26/21 14:45

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7262	09/01/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7384	09/01/21 20:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7403	09/01/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/02/21 01:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		5			7412	09/02/21 06:27	CH	XEN MID

Client Sample ID: C-202

Lab Sample ID: 880-5664-86

Date Collected: 08/26/21 14:46

Matrix: Solid

Date Received: 08/31/21 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7262	09/01/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7384	09/01/21 20:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 20:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7393	09/01/21 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			7412	09/02/21 06:38	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5664-1	C-117	Solid	08/25/21 13:17	08/31/21 14:24
880-5664-2	C-118	Solid	08/25/21 13:18	08/31/21 14:24
880-5664-3	C-119	Solid	08/25/21 13:19	08/31/21 14:24
880-5664-4	C-120	Solid	08/25/21 13:20	08/31/21 14:24
880-5664-5	C-121	Solid	08/25/21 13:21	08/31/21 14:24
880-5664-6	C-122	Solid	08/25/21 13:22	08/31/21 14:24
880-5664-7	C-123	Solid	08/25/21 13:23	08/31/21 14:24
880-5664-8	C-124	Solid	08/25/21 13:24	08/31/21 14:24
880-5664-9	C-125	Solid	08/25/21 13:25	08/31/21 14:24
880-5664-10	C-126	Solid	08/25/21 13:26	08/31/21 14:24
880-5664-11	C-127	Solid	08/25/21 13:27	08/31/21 14:24
880-5664-12	C-128	Solid	08/25/21 13:28	08/31/21 14:24
880-5664-13	C-129	Solid	08/25/21 13:29	08/31/21 14:24
880-5664-14	C-130	Solid	08/25/21 13:30	08/31/21 14:24
880-5664-15	C-131	Solid	08/25/21 13:31	08/31/21 14:24
880-5664-16	C-132	Solid	08/25/21 13:32	08/31/21 14:24
880-5664-17	C-133	Solid	08/25/21 13:33	08/31/21 14:24
880-5664-18	C-134	Solid	08/25/21 13:34	08/31/21 14:24
880-5664-19	C-135	Solid	08/25/21 13:35	08/31/21 14:24
880-5664-20	C-136	Solid	08/25/21 13:36	08/31/21 14:24
880-5664-21	C-137	Solid	08/25/21 13:37	08/31/21 14:24
880-5664-22	C-138	Solid	08/25/21 13:38	08/31/21 14:24
880-5664-23	C-139	Solid	08/25/21 13:39	08/31/21 14:24
880-5664-24	C-140	Solid	08/25/21 13:40	08/31/21 14:24
880-5664-25	C-141	Solid	08/25/21 13:41	08/31/21 14:24
880-5664-26	C-142	Solid	08/25/21 13:42	08/31/21 14:24
880-5664-27	C-143	Solid	08/25/21 13:43	08/31/21 14:24
880-5664-28	C-144	Solid	08/25/21 13:44	08/31/21 14:24
880-5664-29	C-145	Solid	08/25/21 13:45	08/31/21 14:24
880-5664-30	C-146	Solid	08/25/21 13:46	08/31/21 14:24
880-5664-31	C-147	Solid	08/25/21 13:47	08/31/21 14:24
880-5664-32	C-148	Solid	08/25/21 13:48	08/31/21 14:24
880-5664-33	C-149	Solid	08/25/21 13:49	08/31/21 14:24
880-5664-34	C-150	Solid	08/25/21 13:50	08/31/21 14:24
880-5664-35	C-151	Solid	08/25/21 13:51	08/31/21 14:24
880-5664-36	C-152	Solid	08/25/21 13:52	08/31/21 14:24
880-5664-37	C-153	Solid	08/25/21 13:53	08/31/21 14:24
880-5664-38	C-154	Solid	08/25/21 13:54	08/31/21 14:24
880-5664-39	C-155	Solid	08/25/21 13:55	08/31/21 14:24
880-5664-40	C-156	Solid	08/26/21 14:00	08/31/21 14:24
880-5664-41	C-157	Solid	08/26/21 14:01	08/31/21 14:24
880-5664-42	C-158	Solid	08/26/21 14:02	08/31/21 14:24
880-5664-43	C-159	Solid	08/26/21 14:03	08/31/21 14:24
880-5664-44	C-160	Solid	08/26/21 14:04	08/31/21 14:24
880-5664-45	C-161	Solid	08/26/21 14:05	08/31/21 14:24
880-5664-46	C-162	Solid	08/26/21 14:06	08/31/21 14:24
880-5664-47	C-163	Solid	08/26/21 14:07	08/31/21 14:24
880-5664-48	C-164	Solid	08/26/21 14:08	08/31/21 14:24
880-5664-49	C-165	Solid	08/26/21 14:09	08/31/21 14:24
880-5664-50	C-166	Solid	08/26/21 14:10	08/31/21 14:24
880-5664-51	C-167	Solid	08/26/21 14:11	08/31/21 14:24
880-5664-52	C-168	Solid	08/26/21 14:12	08/31/21 14:24
880-5664-53	C-169	Solid	08/26/21 14:13	08/31/21 14:24
880-5664-54	C-170	Solid	08/26/21 14:14	08/31/21 14:24

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5664-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5664-55	C-171	Solid	08/26/21 14:15	08/31/21 14:24
880-5664-56	C-172	Solid	08/26/21 14:16	08/31/21 14:24
880-5664-57	C-173	Solid	08/26/21 14:17	08/31/21 14:24
880-5664-58	C-174	Solid	08/26/21 14:18	08/31/21 14:24
880-5664-59	C-175	Solid	08/26/21 14:19	08/31/21 14:24
880-5664-60	C-176	Solid	08/26/21 14:20	08/31/21 14:24
880-5664-61	C-177	Solid	08/26/21 14:21	08/31/21 14:24
880-5664-62	C-178	Solid	08/26/21 14:22	08/31/21 14:24
880-5664-63	C-179	Solid	08/26/21 14:23	08/31/21 14:24
880-5664-64	C-180	Solid	08/26/21 14:24	08/31/21 14:24
880-5664-65	C-181	Solid	08/26/21 14:25	08/31/21 14:24
880-5664-66	C-182	Solid	08/26/21 14:26	08/31/21 14:24
880-5664-67	C-183	Solid	08/26/21 14:27	08/31/21 14:24
880-5664-68	C-184	Solid	08/26/21 14:28	08/31/21 14:24
880-5664-69	C-185	Solid	08/26/21 14:29	08/31/21 14:24
880-5664-70	C-186	Solid	08/26/21 14:30	08/31/21 14:24
880-5664-71	C-187	Solid	08/26/21 14:31	08/31/21 14:24
880-5664-72	C-188	Solid	08/26/21 14:32	08/31/21 14:24
880-5664-73	C-189	Solid	08/26/21 14:33	08/31/21 14:24
880-5664-74	C-190	Solid	08/26/21 14:34	08/31/21 14:24
880-5664-75	C-191	Solid	08/26/21 14:35	08/31/21 14:24
880-5664-76	C-192	Solid	08/26/21 14:36	08/31/21 14:24
880-5664-77	C-193	Solid	08/26/21 14:37	08/31/21 14:24
880-5664-78	C-194	Solid	08/26/21 14:38	08/31/21 14:24
880-5664-79	C-195	Solid	08/26/21 14:39	08/31/21 14:24
880-5664-80	C-196	Solid	08/26/21 14:40	08/31/21 14:24
880-5664-81	C-197	Solid	08/26/21 14:41	08/31/21 14:24
880-5664-82	C-198	Solid	08/26/21 14:42	08/31/21 14:24
880-5664-83	C-199	Solid	08/26/21 14:43	08/31/21 14:24
880-5664-84	C-200	Solid	08/26/21 14:44	08/31/21 14:24
880-5664-85	C-201	Solid	08/26/21 14:45	08/31/21 14:24
880-5664-86	C-202	Solid	08/26/21 14:46	08/31/21 14:24

9/7/2021

[illegible]

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14**Arson & Associates, Inc.**
Environmental Consultants507 N Marrenfield Ste 202
Midland TX 79701
432-687 0901

Data Reported to

DATE 8/23/2021 PAGE 6 of 6
PO# _____ LAB WORK ORDER# 880-5664
PROJECT LOCATION OR NAME Palmao AST
LAI PROJECT # 21-0165-02 COLLECTOR DSG

CHAIN-OF-CUSTODY

No. 2088

TIME ZONE Time zone/State	TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				UNPRESERVED	ANALYSES		FIELD NOTES	
										HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE		BTEX/MTBE	TPH 418.1		
C-192						8/26/21	14:36	S	1					X	X	X	X	
C-193							14:37											
C-194							14:38											
C-195							14:39											
C-196							14:40											
C-197							14:41											
C-198							14:42											
C-199							14:43											
C-200							14:44											
C-201							14:45											
C-202							14:46	L	L									
TOTAL	11																	

RELINQUISHED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>8/31/21</u>	RECEIVED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>12/24</u>
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
LABORATORY <u>Xenoco</u>	TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐		

LABORATORY USE ONLY: RECEIVING TEMP <u>0/0.5</u> THERM# <u>128</u> CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☒ NOT USED ☒ CARRIER BILL # _____ ☒ HAND DELIVERED
--

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-5664-1

SDG Number: 21-0105-02

Login Number: 5664

List Number: 1

Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-5806-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
9/13/2021 9:06:15 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-5806-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Job ID: 880-5806-1**Laboratory: Eurofins Xenco, Midland****Narrative****Job Narrative
880-5806-1****Receipt**

The samples were received on 9/7/2021 10:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7644 and analytical batch 880-7670 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-211 (880-5806-9), C-215 (880-5806-13) and C-216 (880-5806-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7646 and 880-7647 and analytical batch 880-7728 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-223 (880-5806-21) and C-254 (880-5806-52). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7615 and analytical batch 880-7594 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-7615 and analytical batch 880-7594 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-203

Lab Sample ID: 880-5806-1

Date Collected: 09/01/21 14:30

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 01:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 01:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 01:21	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/08/21 11:47	09/09/21 01:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 01:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/08/21 11:47	09/09/21 01:21	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/08/21 11:47	09/09/21 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/08/21 11:47	09/09/21 01:21	1
1,4-Difluorobenzene (Surr)	74		70 - 130	09/08/21 11:47	09/09/21 01:21	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	50.0	mg/Kg		09/07/21 15:09	09/07/21 22:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	50.0	mg/Kg		09/07/21 15:09	09/07/21 22:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/07/21 22:22	1
Total TPH	<50.0	U F1 F2	50.0	mg/Kg		09/07/21 15:09	09/07/21 22:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	09/07/21 15:09	09/07/21 22:22	1
o-Terphenyl (Surr)	77		70 - 130	09/07/21 15:09	09/07/21 22:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.2		4.95	mg/Kg			09/08/21 20:09	1

Client Sample ID: C-204

Lab Sample ID: 880-5806-2

Date Collected: 09/01/21 14:31

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/08/21 11:47	09/09/21 01:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/08/21 11:47	09/09/21 01:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/08/21 11:47	09/09/21 01:41	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/08/21 11:47	09/09/21 01:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/08/21 11:47	09/09/21 01:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/08/21 11:47	09/09/21 01:41	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/08/21 11:47	09/09/21 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/08/21 11:47	09/09/21 01:41	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/08/21 11:47	09/09/21 01:41	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/07/21 23:26	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-204

Lab Sample ID: 880-5806-2

Date Collected: 09/01/21 14:31

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/07/21 23:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/07/21 23:26	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/07/21 23:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			09/07/21 15:09	09/07/21 23:26	1
o-Terphenyl (Surr)	87		70 - 130			09/07/21 15:09	09/07/21 23:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.1		5.00	mg/Kg			09/08/21 20:14	1

Client Sample ID: C-205

Lab Sample ID: 880-5806-3

Date Collected: 09/01/21 14:32

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/08/21 11:47	09/09/21 02:01	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/08/21 11:47	09/09/21 02:01	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/08/21 11:47	09/09/21 02:01	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/08/21 11:47	09/09/21 02:01	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/08/21 11:47	09/09/21 02:01	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/08/21 11:47	09/09/21 02:01	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/08/21 11:47	09/09/21 02:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			09/08/21 11:47	09/09/21 02:01	1
1,4-Difluorobenzene (Surr)	77		70 - 130			09/08/21 11:47	09/09/21 02:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/07/21 23:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/07/21 23:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/07/21 23:47	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/07/21 23:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			09/07/21 15:09	09/07/21 23:47	1
o-Terphenyl (Surr)	79		70 - 130			09/07/21 15:09	09/07/21 23:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		5.00	mg/Kg			09/08/21 20:20	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-206

Lab Sample ID: 880-5806-4

Date Collected: 09/01/21 14:33

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:47	09/09/21 02:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:47	09/09/21 02:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:47	09/09/21 02:22	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/08/21 11:47	09/09/21 02:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:47	09/09/21 02:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/08/21 11:47	09/09/21 02:22	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/08/21 11:47	09/09/21 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/08/21 11:47	09/09/21 02:22	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/08/21 11:47	09/09/21 02:22	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 00:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 00:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 00:09	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	09/07/21 15:09	09/08/21 00:09	1
o-Terphenyl (Surr)	85		70 - 130	09/07/21 15:09	09/08/21 00:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3760		25.0	mg/Kg			09/08/21 20:25	5

Client Sample ID: C-207

Lab Sample ID: 880-5806-5

Date Collected: 09/01/21 14:34

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:47	09/09/21 02:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:47	09/09/21 02:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:47	09/09/21 02:42	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/08/21 11:47	09/09/21 02:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:47	09/09/21 02:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/08/21 11:47	09/09/21 02:42	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/08/21 11:47	09/09/21 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/08/21 11:47	09/09/21 02:42	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/08/21 11:47	09/09/21 02:42	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 00:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-207

Lab Sample ID: 880-5806-5

Date Collected: 09/01/21 14:34

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 00:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 00:30	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 00:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/07/21 15:09	09/08/21 00:30	1
o-Terphenyl (Surr)	103		70 - 130			09/07/21 15:09	09/08/21 00:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.3		4.96	mg/Kg			09/08/21 20:31	1

Client Sample ID: C-208

Lab Sample ID: 880-5806-6

Date Collected: 09/01/21 14:35

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 03:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 03:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 03:03	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/08/21 11:47	09/09/21 03:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 03:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/08/21 11:47	09/09/21 03:03	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/08/21 11:47	09/09/21 03:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			09/08/21 11:47	09/09/21 03:03	1
1,4-Difluorobenzene (Surr)	75		70 - 130			09/08/21 11:47	09/09/21 03:03	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 00:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 00:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 00:51	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 00:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/07/21 15:09	09/08/21 00:51	1
o-Terphenyl (Surr)	92		70 - 130			09/07/21 15:09	09/08/21 00:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.2		4.98	mg/Kg			09/08/21 20:37	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-209

Lab Sample ID: 880-5806-7

Date Collected: 09/01/21 14:36

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/10/21 09:09	09/10/21 22:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/10/21 09:09	09/10/21 22:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/10/21 09:09	09/10/21 22:08	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/10/21 09:09	09/10/21 22:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/10/21 09:09	09/10/21 22:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/10/21 09:09	09/10/21 22:08	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/10/21 09:09	09/10/21 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	09/10/21 09:09	09/10/21 22:08	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/10/21 09:09	09/10/21 22:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 01:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 01:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 01:12	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	60	S1-	70 - 130	09/07/21 15:09	09/08/21 01:12	1
o-Terphenyl (Surr)	59	S1-	70 - 130	09/07/21 15:09	09/08/21 01:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.2		5.00	mg/Kg			09/08/21 20:42	1

Client Sample ID: C-210

Lab Sample ID: 880-5806-8

Date Collected: 09/01/21 14:37

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 03:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 03:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 03:43	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/08/21 11:47	09/09/21 03:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 03:43	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/08/21 11:47	09/09/21 03:43	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/08/21 11:47	09/09/21 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/08/21 11:47	09/09/21 03:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/08/21 11:47	09/09/21 03:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 01:34	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-210

Lab Sample ID: 880-5806-8

Date Collected: 09/01/21 14:37

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 01:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 01:34	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 01:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			09/07/21 15:09	09/08/21 01:34	1
o-Terphenyl (Surr)	86		70 - 130			09/07/21 15:09	09/08/21 01:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.3		4.95	mg/Kg			09/08/21 21:27	1

Client Sample ID: C-211

Lab Sample ID: 880-5806-9

Date Collected: 09/01/21 14:38

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 04:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 04:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 04:04	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/08/21 11:47	09/09/21 04:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 04:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/08/21 11:47	09/09/21 04:04	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/08/21 11:47	09/09/21 04:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			09/08/21 11:47	09/09/21 04:04	1
1,4-Difluorobenzene (Surr)	95		70 - 130			09/08/21 11:47	09/09/21 04:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 01:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 01:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 01:55	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 01:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130			09/07/21 15:09	09/08/21 01:55	1
o-Terphenyl (Surr)	69	S1-	70 - 130			09/07/21 15:09	09/08/21 01:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.7		5.04	mg/Kg			09/08/21 21:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-212

Lab Sample ID: 880-5806-10

Date Collected: 09/01/21 14:39

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 04:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 04:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 04:24	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/08/21 11:47	09/09/21 04:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/09/21 04:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/08/21 11:47	09/09/21 04:24	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/08/21 11:47	09/09/21 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/08/21 11:47	09/09/21 04:24	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/08/21 11:47	09/09/21 04:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 02:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 02:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 02:16	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	09/07/21 15:09	09/08/21 02:16	1
o-Terphenyl (Surr)	90		70 - 130	09/07/21 15:09	09/08/21 02:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.5		4.95	mg/Kg			09/08/21 21:50	1

Client Sample ID: C-213

Lab Sample ID: 880-5806-11

Date Collected: 09/01/21 14:40

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:57	09/09/21 13:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:57	09/09/21 13:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:57	09/09/21 13:56	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/08/21 11:57	09/09/21 13:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:57	09/09/21 13:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/08/21 11:57	09/09/21 13:56	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/08/21 11:57	09/09/21 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/08/21 11:57	09/09/21 13:56	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/08/21 11:57	09/09/21 13:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 02:59	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-213

Lab Sample ID: 880-5806-11

Date Collected: 09/01/21 14:40

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 02:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 02:59	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 02:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			09/07/21 15:09	09/08/21 02:59	1
o-Terphenyl (Surr)	78		70 - 130			09/07/21 15:09	09/08/21 02:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.9		5.03	mg/Kg			09/08/21 21:55	1

Client Sample ID: C-214

Lab Sample ID: 880-5806-12

Date Collected: 09/01/21 14:41

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/08/21 11:57	09/09/21 14:17	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/08/21 11:57	09/09/21 14:17	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/08/21 11:57	09/09/21 14:17	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/08/21 11:57	09/09/21 14:17	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/08/21 11:57	09/09/21 14:17	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/08/21 11:57	09/09/21 14:17	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		09/08/21 11:57	09/09/21 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			09/08/21 11:57	09/09/21 14:17	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/08/21 11:57	09/09/21 14:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 03:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 03:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 03:20	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 03:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	53	S1-	70 - 130			09/07/21 15:09	09/08/21 03:20	1
o-Terphenyl (Surr)	50	S1-	70 - 130			09/07/21 15:09	09/08/21 03:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.6		5.04	mg/Kg			09/08/21 22:01	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-215

Lab Sample ID: 880-5806-13

Date Collected: 09/01/21 14:42

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:57	09/09/21 14:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:57	09/09/21 14:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:57	09/09/21 14:37	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/08/21 11:57	09/09/21 14:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:57	09/09/21 14:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/08/21 11:57	09/09/21 14:37	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/08/21 11:57	09/09/21 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	09/08/21 11:57	09/09/21 14:37	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/08/21 11:57	09/09/21 14:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 03:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 03:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 03:41	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130	09/07/21 15:09	09/08/21 03:41	1
o-Terphenyl (Surr)	76		70 - 130	09/07/21 15:09	09/08/21 03:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.7		4.98	mg/Kg			09/08/21 22:18	1

Client Sample ID: C-216

Lab Sample ID: 880-5806-14

Date Collected: 09/01/21 14:43

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/08/21 11:57	09/09/21 14:58	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/08/21 11:57	09/09/21 14:58	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/08/21 11:57	09/09/21 14:58	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/08/21 11:57	09/09/21 14:58	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/08/21 11:57	09/09/21 14:58	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/08/21 11:57	09/09/21 14:58	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/08/21 11:57	09/09/21 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	09/08/21 11:57	09/09/21 14:58	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/08/21 11:57	09/09/21 14:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 04:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-216

Lab Sample ID: 880-5806-14

Date Collected: 09/01/21 14:43

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 04:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 04:02	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 04:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			09/07/21 15:09	09/08/21 04:02	1
o-Terphenyl (Surr)	86		70 - 130			09/07/21 15:09	09/08/21 04:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.1		4.95	mg/Kg			09/08/21 22:23	1

Client Sample ID: C-217

Lab Sample ID: 880-5806-15

Date Collected: 09/02/21 15:00

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/08/21 11:57	09/09/21 15:18	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/08/21 11:57	09/09/21 15:18	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/08/21 11:57	09/09/21 15:18	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/08/21 11:57	09/09/21 15:18	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/08/21 11:57	09/09/21 15:18	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/08/21 11:57	09/09/21 15:18	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/08/21 11:57	09/09/21 15:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			09/08/21 11:57	09/09/21 15:18	1
1,4-Difluorobenzene (Surr)	77		70 - 130			09/08/21 11:57	09/09/21 15:18	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 04:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 04:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 04:24	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 04:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			09/07/21 15:09	09/08/21 04:24	1
o-Terphenyl (Surr)	102		70 - 130			09/07/21 15:09	09/08/21 04:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.5		4.95	mg/Kg			09/08/21 22:29	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-218

Lab Sample ID: 880-5806-16

Date Collected: 09/02/21 15:01

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:57	09/09/21 15:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:57	09/09/21 15:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:57	09/09/21 15:38	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/08/21 11:57	09/09/21 15:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/08/21 11:57	09/09/21 15:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/08/21 11:57	09/09/21 15:38	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/08/21 11:57	09/09/21 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	09/08/21 11:57	09/09/21 15:38	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/08/21 11:57	09/09/21 15:38	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 04:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 04:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 04:45	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:09	09/08/21 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	09/07/21 15:09	09/08/21 04:45	1
o-Terphenyl (Surr)	114		70 - 130	09/07/21 15:09	09/08/21 04:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.9		5.01	mg/Kg			09/08/21 22:34	1

Client Sample ID: C-219

Lab Sample ID: 880-5806-17

Date Collected: 09/02/21 15:02

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:57	09/09/21 15:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:57	09/09/21 15:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:57	09/09/21 15:59	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/08/21 11:57	09/09/21 15:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:57	09/09/21 15:59	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/08/21 11:57	09/09/21 15:59	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/08/21 11:57	09/09/21 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	09/08/21 11:57	09/09/21 15:59	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/08/21 11:57	09/09/21 15:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 05:06	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-219

Lab Sample ID: 880-5806-17

Date Collected: 09/02/21 15:02

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 05:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 05:06	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 05:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130			09/07/21 15:09	09/08/21 05:06	1
o-Terphenyl (Surr)	124		70 - 130			09/07/21 15:09	09/08/21 05:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		4.99	mg/Kg			09/08/21 22:40	1

Client Sample ID: C-220

Lab Sample ID: 880-5806-18

Date Collected: 09/02/21 15:03

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F2 F1	0.00202	mg/Kg		09/08/21 12:03	09/11/21 04:35	1
Toluene	<0.00202	U F1	0.00202	mg/Kg		09/08/21 12:03	09/11/21 04:35	1
Ethylbenzene	<0.00202	U F1	0.00202	mg/Kg		09/08/21 12:03	09/11/21 04:35	1
m,p-Xylenes	<0.00403	U F1	0.00403	mg/Kg		09/08/21 12:03	09/11/21 04:35	1
o-Xylene	<0.00202	U F1	0.00202	mg/Kg		09/08/21 12:03	09/11/21 04:35	1
Xylenes, Total	<0.00403	U F1	0.00403	mg/Kg		09/08/21 12:03	09/11/21 04:35	1
Total BTEX	<0.00403	U F2 F1	0.00403	mg/Kg		09/08/21 12:03	09/11/21 04:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			09/08/21 12:03	09/11/21 04:35	1
1,4-Difluorobenzene (Surr)	101		70 - 130			09/08/21 12:03	09/11/21 04:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 05:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 05:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 05:26	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 15:09	09/08/21 05:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			09/07/21 15:09	09/08/21 05:26	1
o-Terphenyl (Surr)	95		70 - 130			09/07/21 15:09	09/08/21 05:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.7		4.97	mg/Kg			09/08/21 22:46	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-221

Lab Sample ID: 880-5806-19

Date Collected: 09/02/21 15:04

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 04:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 04:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 04:56	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/08/21 12:03	09/11/21 04:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 04:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/08/21 12:03	09/11/21 04:56	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/08/21 12:03	09/11/21 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/08/21 12:03	09/11/21 04:56	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/08/21 12:03	09/11/21 04:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 05:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 05:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 05:47	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 05:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130	09/07/21 15:09	09/08/21 05:47	1
o-Terphenyl (Surr)	127		70 - 130	09/07/21 15:09	09/08/21 05:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	292		4.95	mg/Kg			09/08/21 23:02	1

Client Sample ID: C-222

Lab Sample ID: 880-5806-20

Date Collected: 09/02/21 15:05

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 05:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 05:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 05:16	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/08/21 12:03	09/11/21 05:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 05:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/08/21 12:03	09/11/21 05:16	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/08/21 12:03	09/11/21 05:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	09/08/21 12:03	09/11/21 05:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/08/21 12:03	09/11/21 05:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 06:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-222

Lab Sample ID: 880-5806-20

Date Collected: 09/02/21 15:05

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 06:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 06:08	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/08/21 06:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			09/07/21 15:09	09/08/21 06:08	1
o-Terphenyl (Surr)	126		70 - 130			09/07/21 15:09	09/08/21 06:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.4		4.97	mg/Kg			09/08/21 23:08	1

Client Sample ID: C-223

Lab Sample ID: 880-5806-21

Date Collected: 09/02/21 15:06

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 05:37	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 05:37	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 05:37	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 05:37	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 05:37	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 05:37	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 05:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130			09/08/21 12:03	09/11/21 05:37	1
1,4-Difluorobenzene (Surr)	94		70 - 130			09/08/21 12:03	09/11/21 05:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 11:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 11:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 11:43	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 11:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			09/07/21 15:21	09/08/21 11:43	1
o-Terphenyl (Surr)	111		70 - 130			09/07/21 15:21	09/08/21 11:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.1		4.95	mg/Kg			09/08/21 23:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-224

Lab Sample ID: 880-5806-22

Date Collected: 09/02/21 15:07

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 05:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 05:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 05:57	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/08/21 12:03	09/11/21 05:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 05:57	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/08/21 12:03	09/11/21 05:57	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/08/21 12:03	09/11/21 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	09/08/21 12:03	09/11/21 05:57	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/08/21 12:03	09/11/21 05:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 12:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 12:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 12:47	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	09/07/21 15:21	09/08/21 12:47	1
o-Terphenyl (Surr)	116		70 - 130	09/07/21 15:21	09/08/21 12:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.7		5.00	mg/Kg			09/08/21 23:31	1

Client Sample ID: C-225

Lab Sample ID: 880-5806-23

Date Collected: 09/02/21 15:08

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 06:17	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 06:17	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 06:17	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/08/21 12:03	09/11/21 06:17	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 06:17	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/08/21 12:03	09/11/21 06:17	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/08/21 12:03	09/11/21 06:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	09/08/21 12:03	09/11/21 06:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/08/21 12:03	09/11/21 06:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 13:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-225

Lab Sample ID: 880-5806-23

Date Collected: 09/02/21 15:08

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 13:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 13:08	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 13:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			09/07/21 15:21	09/08/21 13:08	1
o-Terphenyl (Surr)	118		70 - 130			09/07/21 15:21	09/08/21 13:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.0		5.03	mg/Kg			09/08/21 23:36	1

Client Sample ID: C-226

Lab Sample ID: 880-5806-24

Date Collected: 09/02/21 16:08

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 06:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 06:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 06:38	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 06:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 06:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 06:38	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 06:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			09/08/21 12:03	09/11/21 06:38	1
1,4-Difluorobenzene (Surr)	94		70 - 130			09/08/21 12:03	09/11/21 06:38	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 13:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 13:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 13:30	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 13:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/07/21 15:21	09/08/21 13:30	1
o-Terphenyl (Surr)	111		70 - 130			09/07/21 15:21	09/08/21 13:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.1		4.97	mg/Kg			09/08/21 23:42	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-227

Lab Sample ID: 880-5806-25

Date Collected: 09/02/21 15:10

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 06:58	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 06:58	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 06:58	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 06:58	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 06:58	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 06:58	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 06:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	09/08/21 12:03	09/11/21 06:58	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/08/21 12:03	09/11/21 06:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 13:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 13:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 13:51	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	09/07/21 15:21	09/08/21 13:51	1
o-Terphenyl (Surr)	107		70 - 130	09/07/21 15:21	09/08/21 13:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.9		4.96	mg/Kg			09/08/21 23:47	1

Client Sample ID: C-228

Lab Sample ID: 880-5806-26

Date Collected: 09/02/21 15:11

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 07:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 07:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 07:19	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/08/21 12:03	09/11/21 07:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 07:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/08/21 12:03	09/11/21 07:19	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/08/21 12:03	09/11/21 07:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	09/08/21 12:03	09/11/21 07:19	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/08/21 12:03	09/11/21 07:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 14:12	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-228

Lab Sample ID: 880-5806-26

Date Collected: 09/02/21 15:11

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 14:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 14:12	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/07/21 15:21	09/08/21 14:12	1
o-Terphenyl (Surr)	109		70 - 130			09/07/21 15:21	09/08/21 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.9		5.00	mg/Kg			09/08/21 23:53	1

Client Sample ID: C-229

Lab Sample ID: 880-5806-27

Date Collected: 09/02/21 15:12

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 07:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 07:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 07:39	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/08/21 12:03	09/11/21 07:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 07:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/08/21 12:03	09/11/21 07:39	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/08/21 12:03	09/11/21 07:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			09/08/21 12:03	09/11/21 07:39	1
1,4-Difluorobenzene (Surr)	93		70 - 130			09/08/21 12:03	09/11/21 07:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 14:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 14:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 14:33	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			09/07/21 15:21	09/08/21 14:33	1
o-Terphenyl (Surr)	108		70 - 130			09/07/21 15:21	09/08/21 14:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.9		4.98	mg/Kg			09/08/21 23:59	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-230

Lab Sample ID: 880-5806-28

Date Collected: 09/02/21 15:13

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 09:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 09:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 09:01	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/08/21 12:03	09/11/21 09:01	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 09:01	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/08/21 12:03	09/11/21 09:01	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/08/21 12:03	09/11/21 09:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	09/08/21 12:03	09/11/21 09:01	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/08/21 12:03	09/11/21 09:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 14:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 14:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 14:55	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	09/07/21 15:21	09/08/21 14:55	1
o-Terphenyl (Surr)	114		70 - 130	09/07/21 15:21	09/08/21 14:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.0		5.00	mg/Kg			09/09/21 00:44	1

Client Sample ID: C-231

Lab Sample ID: 880-5806-29

Date Collected: 09/02/21 15:14

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 09:21	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 09:21	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 09:21	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/08/21 12:03	09/11/21 09:21	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 09:21	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/08/21 12:03	09/11/21 09:21	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		09/08/21 12:03	09/11/21 09:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	09/08/21 12:03	09/11/21 09:21	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/08/21 12:03	09/11/21 09:21	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 15:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-231

Lab Sample ID: 880-5806-29

Date Collected: 09/02/21 15:14

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 15:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 15:16	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/07/21 15:21	09/08/21 15:16	1
o-Terphenyl (Surr)	110		70 - 130			09/07/21 15:21	09/08/21 15:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.4		4.98	mg/Kg			09/09/21 01:01	1

Client Sample ID: C-232

Lab Sample ID: 880-5806-30

Date Collected: 09/02/21 15:15

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 09:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 09:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 09:42	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/08/21 12:03	09/11/21 09:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 09:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/08/21 12:03	09/11/21 09:42	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/08/21 12:03	09/11/21 09:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			09/08/21 12:03	09/11/21 09:42	1
1,4-Difluorobenzene (Surr)	96		70 - 130			09/08/21 12:03	09/11/21 09:42	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 15:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 15:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 15:37	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 15:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/07/21 15:21	09/08/21 15:37	1
o-Terphenyl (Surr)	110		70 - 130			09/07/21 15:21	09/08/21 15:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.7		4.95	mg/Kg			09/09/21 01:06	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-233

Lab Sample ID: 880-5806-31

Date Collected: 09/02/21 15:16

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 10:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 10:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 10:02	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/08/21 12:03	09/11/21 10:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:03	09/11/21 10:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/08/21 12:03	09/11/21 10:02	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/08/21 12:03	09/11/21 10:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	09/08/21 12:03	09/11/21 10:02	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/08/21 12:03	09/11/21 10:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 16:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 16:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 16:19	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	09/07/21 15:21	09/08/21 16:19	1
o-Terphenyl (Surr)	124		70 - 130	09/07/21 15:21	09/08/21 16:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		5.03	mg/Kg			09/09/21 01:12	1

Client Sample ID: C-234

Lab Sample ID: 880-5806-32

Date Collected: 09/02/21 15:17

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 10:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 10:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 10:23	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/08/21 12:03	09/11/21 10:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 10:23	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/08/21 12:03	09/11/21 10:23	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/08/21 12:03	09/11/21 10:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	09/08/21 12:03	09/11/21 10:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/08/21 12:03	09/11/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 16:40	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-234

Lab Sample ID: 880-5806-32

Date Collected: 09/02/21 15:17

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 16:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 16:40	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/07/21 15:21	09/08/21 16:40	1
o-Terphenyl (Surr)	114		70 - 130			09/07/21 15:21	09/08/21 16:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.2		5.04	mg/Kg			09/09/21 01:17	1

Client Sample ID: C-235

Lab Sample ID: 880-5806-33

Date Collected: 09/02/21 15:18

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/08/21 12:03	09/11/21 10:43	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/08/21 12:03	09/11/21 10:43	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/08/21 12:03	09/11/21 10:43	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/08/21 12:03	09/11/21 10:43	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/08/21 12:03	09/11/21 10:43	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/08/21 12:03	09/11/21 10:43	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/08/21 12:03	09/11/21 10:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			09/08/21 12:03	09/11/21 10:43	1
1,4-Difluorobenzene (Surr)	95		70 - 130			09/08/21 12:03	09/11/21 10:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 17:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 17:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 17:02	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			09/07/21 15:21	09/08/21 17:02	1
o-Terphenyl (Surr)	114		70 - 130			09/07/21 15:21	09/08/21 17:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		5.04	mg/Kg			09/09/21 01:34	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-236

Lab Sample ID: 880-5806-34

Date Collected: 09/02/21 15:19

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 11:03	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 11:03	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 11:03	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/08/21 12:03	09/11/21 11:03	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 11:03	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/08/21 12:03	09/11/21 11:03	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		09/08/21 12:03	09/11/21 11:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	09/08/21 12:03	09/11/21 11:03	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/08/21 12:03	09/11/21 11:03	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 17:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 17:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 17:23	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	09/07/21 15:21	09/08/21 17:23	1
o-Terphenyl (Surr)	108		70 - 130	09/07/21 15:21	09/08/21 17:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	774		4.97	mg/Kg			09/09/21 01:40	1

Client Sample ID: C-237

Lab Sample ID: 880-5806-35

Date Collected: 09/02/21 15:20

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 11:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 11:24	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 11:24	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/08/21 12:03	09/11/21 11:24	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:03	09/11/21 11:24	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/08/21 12:03	09/11/21 11:24	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/08/21 12:03	09/11/21 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/08/21 12:03	09/11/21 11:24	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/08/21 12:03	09/11/21 11:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 17:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-237

Lab Sample ID: 880-5806-35

Date Collected: 09/02/21 15:20

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 17:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 17:44	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 17:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			09/07/21 15:21	09/08/21 17:44	1
o-Terphenyl (Surr)	111		70 - 130			09/07/21 15:21	09/08/21 17:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.9		4.95	mg/Kg			09/09/21 01:45	1

Client Sample ID: C-238

Lab Sample ID: 880-5806-36

Date Collected: 09/02/21 15:21

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 11:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 11:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 11:44	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 11:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 11:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 11:44	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 11:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			09/08/21 12:03	09/11/21 11:44	1
1,4-Difluorobenzene (Surr)	97		70 - 130			09/08/21 12:03	09/11/21 11:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 18:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 18:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 18:05	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 15:21	09/08/21 18:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			09/07/21 15:21	09/08/21 18:05	1
o-Terphenyl (Surr)	106		70 - 130			09/07/21 15:21	09/08/21 18:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	813		4.95	mg/Kg			09/09/21 01:51	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-239

Lab Sample ID: 880-5806-37

Date Collected: 09/02/21 15:22

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 12:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 12:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 12:05	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 12:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:03	09/11/21 12:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 12:05	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/08/21 12:03	09/11/21 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/08/21 12:03	09/11/21 12:05	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/08/21 12:03	09/11/21 12:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 18:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 18:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 18:26	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	09/07/21 15:21	09/08/21 18:26	1
o-Terphenyl (Surr)	113		70 - 130	09/07/21 15:21	09/08/21 18:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.4		4.99	mg/Kg			09/09/21 01:57	1

Client Sample ID: C-240

Lab Sample ID: 880-5806-38

Date Collected: 09/02/21 15:23

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/11/21 19:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/11/21 19:07	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		09/08/21 12:07	09/11/21 19:07	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		09/08/21 12:07	09/11/21 19:07	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		09/08/21 12:07	09/11/21 19:07	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		09/08/21 12:07	09/11/21 19:07	1
Total BTEX	<0.00398	U F1	0.00398	mg/Kg		09/08/21 12:07	09/11/21 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/08/21 12:07	09/11/21 19:07	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/08/21 12:07	09/11/21 19:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 18:47	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-240

Lab Sample ID: 880-5806-38

Date Collected: 09/02/21 15:23

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 18:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 18:47	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 15:21	09/08/21 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/07/21 15:21	09/08/21 18:47	1
o-Terphenyl (Surr)	106		70 - 130			09/07/21 15:21	09/08/21 18:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.9		4.97	mg/Kg			09/09/21 02:02	1

Client Sample ID: C-241

Lab Sample ID: 880-5806-39

Date Collected: 09/02/21 15:24

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/11/21 19:27	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/11/21 19:27	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/11/21 19:27	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/08/21 12:07	09/11/21 19:27	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/11/21 19:27	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/08/21 12:07	09/11/21 19:27	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/08/21 12:07	09/11/21 19:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			09/08/21 12:07	09/11/21 19:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130			09/08/21 12:07	09/11/21 19:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 19:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 19:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 19:09	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 19:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			09/07/21 15:21	09/08/21 19:09	1
o-Terphenyl (Surr)	109		70 - 130			09/07/21 15:21	09/08/21 19:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.8		4.96	mg/Kg			09/09/21 02:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-242

Lab Sample ID: 880-5806-40

Date Collected: 09/02/21 15:25

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 19:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 19:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 19:48	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/08/21 12:07	09/11/21 19:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 19:48	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/08/21 12:07	09/11/21 19:48	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/08/21 12:07	09/11/21 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	09/08/21 12:07	09/11/21 19:48	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/08/21 12:07	09/11/21 19:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 19:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 19:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 19:30	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	09/07/21 15:21	09/08/21 19:30	1
o-Terphenyl (Surr)	109		70 - 130	09/07/21 15:21	09/08/21 19:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.7		4.97	mg/Kg			09/09/21 02:25	1

Client Sample ID: C-243

Lab Sample ID: 880-5806-41

Date Collected: 09/02/21 15:26

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:07	09/11/21 20:08	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:07	09/11/21 20:08	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:07	09/11/21 20:08	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/08/21 12:07	09/11/21 20:08	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:07	09/11/21 20:08	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/08/21 12:07	09/11/21 20:08	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/08/21 12:07	09/11/21 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	09/08/21 12:07	09/11/21 20:08	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/08/21 12:07	09/11/21 20:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 16:33	09/08/21 13:51	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-243

Lab Sample ID: 880-5806-41

Date Collected: 09/02/21 15:26

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 16:33	09/08/21 13:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 16:33	09/08/21 13:51	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 16:33	09/08/21 13:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/07/21 16:33	09/08/21 13:51	1
o-Terphenyl (Surr)	103		70 - 130			09/07/21 16:33	09/08/21 13:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.4		5.01	mg/Kg			09/09/21 02:41	1

Client Sample ID: C-244

Lab Sample ID: 880-5806-42

Date Collected: 09/02/21 15:27

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/11/21 20:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/11/21 20:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/11/21 20:28	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/08/21 12:07	09/11/21 20:28	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/11/21 20:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/08/21 12:07	09/11/21 20:28	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/08/21 12:07	09/11/21 20:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			09/08/21 12:07	09/11/21 20:28	1
1,4-Difluorobenzene (Surr)	100		70 - 130			09/08/21 12:07	09/11/21 20:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 16:33	09/08/21 14:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 16:33	09/08/21 14:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 16:33	09/08/21 14:12	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 16:33	09/08/21 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			09/07/21 16:33	09/08/21 14:12	1
o-Terphenyl (Surr)	101		70 - 130			09/07/21 16:33	09/08/21 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.7		4.98	mg/Kg			09/09/21 02:47	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-245

Lab Sample ID: 880-5806-43

Date Collected: 09/02/21 15:28

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/11/21 20:49	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/11/21 20:49	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/11/21 20:49	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/08/21 12:07	09/11/21 20:49	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/11/21 20:49	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/08/21 12:07	09/11/21 20:49	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/08/21 12:07	09/11/21 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	09/08/21 12:07	09/11/21 20:49	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/08/21 12:07	09/11/21 20:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 16:33	09/08/21 14:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 16:33	09/08/21 14:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 16:33	09/08/21 14:33	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 16:33	09/08/21 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	09/07/21 16:33	09/08/21 14:33	1
o-Terphenyl (Surr)	103		70 - 130	09/07/21 16:33	09/08/21 14:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.4		5.00	mg/Kg			09/09/21 02:53	1

Client Sample ID: C-246

Lab Sample ID: 880-5806-44

Date Collected: 09/02/21 15:29

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 21:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 21:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 21:09	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/08/21 12:07	09/11/21 21:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 21:09	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/08/21 12:07	09/11/21 21:09	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/08/21 12:07	09/11/21 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/08/21 12:07	09/11/21 21:09	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/08/21 12:07	09/11/21 21:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 16:33	09/08/21 14:55	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-246

Lab Sample ID: 880-5806-44

Date Collected: 09/02/21 15:29

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 16:33	09/08/21 14:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 16:33	09/08/21 14:55	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 16:33	09/08/21 14:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/07/21 16:33	09/08/21 14:55	1
o-Terphenyl (Surr)	102		70 - 130			09/07/21 16:33	09/08/21 14:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.3		4.99	mg/Kg			09/09/21 02:58	1

Client Sample ID: C-247

Lab Sample ID: 880-5806-45

Date Collected: 09/02/21 15:30

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 21:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 21:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 21:30	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/08/21 12:07	09/11/21 21:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 21:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/08/21 12:07	09/11/21 21:30	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/08/21 12:07	09/11/21 21:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			09/08/21 12:07	09/11/21 21:30	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/08/21 12:07	09/11/21 21:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 16:33	09/08/21 15:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 16:33	09/08/21 15:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 16:33	09/08/21 15:16	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 16:33	09/08/21 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/07/21 16:33	09/08/21 15:16	1
o-Terphenyl (Surr)	97		70 - 130			09/07/21 16:33	09/08/21 15:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.2		5.00	mg/Kg			09/09/21 03:04	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-248

Lab Sample ID: 880-5806-46

Date Collected: 09/02/21 15:31

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 21:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 21:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 21:50	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/08/21 12:07	09/11/21 21:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 21:50	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/08/21 12:07	09/11/21 21:50	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/08/21 12:07	09/11/21 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/08/21 12:07	09/11/21 21:50	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/08/21 12:07	09/11/21 21:50	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 16:33	09/08/21 15:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 16:33	09/08/21 15:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 16:33	09/08/21 15:37	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 16:33	09/08/21 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	09/07/21 16:33	09/08/21 15:37	1
o-Terphenyl (Surr)	109		70 - 130	09/07/21 16:33	09/08/21 15:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.0		5.00	mg/Kg			09/09/21 03:09	1

Client Sample ID: C-249

Lab Sample ID: 880-5806-47

Date Collected: 09/02/21 15:32

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/11/21 22:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/11/21 22:11	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/11/21 22:11	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/08/21 12:07	09/11/21 22:11	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/11/21 22:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/08/21 12:07	09/11/21 22:11	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/08/21 12:07	09/11/21 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	09/08/21 12:07	09/11/21 22:11	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/08/21 12:07	09/11/21 22:11	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 15:33	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-249

Lab Sample ID: 880-5806-47

Date Collected: 09/02/21 15:32

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 15:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 15:33	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 15:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130			09/07/21 14:13	09/08/21 15:33	1
o-Terphenyl (Surr)	113		70 - 130			09/07/21 14:13	09/08/21 15:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		4.95	mg/Kg			09/09/21 03:15	1

Client Sample ID: C-250

Lab Sample ID: 880-5806-48

Date Collected: 09/02/21 15:33

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/08/21 12:07	09/11/21 23:33	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/08/21 12:07	09/11/21 23:33	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/08/21 12:07	09/11/21 23:33	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/08/21 12:07	09/11/21 23:33	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/08/21 12:07	09/11/21 23:33	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/08/21 12:07	09/11/21 23:33	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		09/08/21 12:07	09/11/21 23:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			09/08/21 12:07	09/11/21 23:33	1
1,4-Difluorobenzene (Surr)	89		70 - 130			09/08/21 12:07	09/11/21 23:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 14:13	09/08/21 15:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 14:13	09/08/21 15:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 14:13	09/08/21 15:54	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 14:13	09/08/21 15:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			09/07/21 14:13	09/08/21 15:54	1
o-Terphenyl (Surr)	107		70 - 130			09/07/21 14:13	09/08/21 15:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.4		5.05	mg/Kg			09/08/21 16:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-251

Lab Sample ID: 880-5806-49

Date Collected: 09/02/21 15:34

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/11/21 23:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/11/21 23:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/11/21 23:53	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/08/21 12:07	09/11/21 23:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/11/21 23:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/08/21 12:07	09/11/21 23:53	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/08/21 12:07	09/11/21 23:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/08/21 12:07	09/11/21 23:53	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/08/21 12:07	09/11/21 23:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 14:13	09/08/21 16:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 14:13	09/08/21 16:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 14:13	09/08/21 16:15	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 14:13	09/08/21 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	09/07/21 14:13	09/08/21 16:15	1
o-Terphenyl (Surr)	105		70 - 130	09/07/21 14:13	09/08/21 16:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.7		4.99	mg/Kg			09/08/21 16:42	1

Client Sample ID: C-252

Lab Sample ID: 880-5806-50

Date Collected: 09/02/21 15:35

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/12/21 00:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/12/21 00:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/12/21 00:13	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/08/21 12:07	09/12/21 00:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/12/21 00:13	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/08/21 12:07	09/12/21 00:13	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/08/21 12:07	09/12/21 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/08/21 12:07	09/12/21 00:13	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/08/21 12:07	09/12/21 00:13	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 14:13	09/08/21 16:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-252

Lab Sample ID: 880-5806-50

Date Collected: 09/02/21 15:35

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 14:13	09/08/21 16:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 14:13	09/08/21 16:35	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 14:13	09/08/21 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/07/21 14:13	09/08/21 16:35	1
o-Terphenyl (Surr)	103		70 - 130			09/07/21 14:13	09/08/21 16:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.6		4.95	mg/Kg			09/08/21 15:57	1

Client Sample ID: C-253

Lab Sample ID: 880-5806-51

Date Collected: 09/02/21 15:36

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/12/21 00:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/12/21 00:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/12/21 00:34	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/08/21 12:07	09/12/21 00:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/08/21 12:07	09/12/21 00:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/08/21 12:07	09/12/21 00:34	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/08/21 12:07	09/12/21 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/08/21 12:07	09/12/21 00:34	1
1,4-Difluorobenzene (Surr)	94		70 - 130			09/08/21 12:07	09/12/21 00:34	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/07/21 14:13	09/08/21 16:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/07/21 14:13	09/08/21 16:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/07/21 14:13	09/08/21 16:56	1
Total TPH	<49.9	U	49.9	mg/Kg		09/07/21 14:13	09/08/21 16:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			09/07/21 14:13	09/08/21 16:56	1
o-Terphenyl (Surr)	118		70 - 130			09/07/21 14:13	09/08/21 16:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.5		5.03	mg/Kg			09/08/21 16:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-254

Lab Sample ID: 880-5806-52

Date Collected: 09/02/21 15:37

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:07	09/12/21 00:54	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:07	09/12/21 00:54	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:07	09/12/21 00:54	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/08/21 12:07	09/12/21 00:54	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:07	09/12/21 00:54	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/08/21 12:07	09/12/21 00:54	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/08/21 12:07	09/12/21 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	09/08/21 12:07	09/12/21 00:54	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/08/21 12:07	09/12/21 00:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 17:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 17:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 17:17	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	09/07/21 14:13	09/08/21 17:17	1
o-Terphenyl (Surr)	123		70 - 130	09/07/21 14:13	09/08/21 17:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.3		5.04	mg/Kg			09/08/21 16:12	1

Client Sample ID: C-255

Lab Sample ID: 880-5806-53

Date Collected: 09/02/21 15:38

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/12/21 01:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/12/21 01:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/12/21 01:15	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/08/21 12:07	09/12/21 01:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/12/21 01:15	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/08/21 12:07	09/12/21 01:15	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/08/21 12:07	09/12/21 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	09/08/21 12:07	09/12/21 01:15	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/08/21 12:07	09/12/21 01:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/07/21 14:13	09/08/21 17:38	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-255

Lab Sample ID: 880-5806-53

Date Collected: 09/02/21 15:38

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/07/21 14:13	09/08/21 17:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/07/21 14:13	09/08/21 17:38	1
Total TPH	<49.8	U	49.8	mg/Kg		09/07/21 14:13	09/08/21 17:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			09/07/21 14:13	09/08/21 17:38	1
o-Terphenyl (Surr)	104		70 - 130			09/07/21 14:13	09/08/21 17:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		5.05	mg/Kg			09/08/21 16:50	1

Client Sample ID: C-256

Lab Sample ID: 880-5806-54

Date Collected: 09/02/21 15:39

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/12/21 01:35	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/12/21 01:35	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/12/21 01:35	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/08/21 12:07	09/12/21 01:35	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/08/21 12:07	09/12/21 01:35	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/08/21 12:07	09/12/21 01:35	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/08/21 12:07	09/12/21 01:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			09/08/21 12:07	09/12/21 01:35	1
1,4-Difluorobenzene (Surr)	90		70 - 130			09/08/21 12:07	09/12/21 01:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 17:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 17:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 17:59	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 17:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/07/21 14:13	09/08/21 17:59	1
o-Terphenyl (Surr)	101		70 - 130			09/07/21 14:13	09/08/21 17:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.3		5.01	mg/Kg			09/08/21 16:57	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-257

Lab Sample ID: 880-5806-55

Date Collected: 09/02/21 15:40

Matrix: Solid

Date Received: 09/07/21 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:07	09/12/21 01:56	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:07	09/12/21 01:56	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:07	09/12/21 01:56	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/08/21 12:07	09/12/21 01:56	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/08/21 12:07	09/12/21 01:56	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/08/21 12:07	09/12/21 01:56	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/08/21 12:07	09/12/21 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	09/08/21 12:07	09/12/21 01:56	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/08/21 12:07	09/12/21 01:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 18:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 18:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 18:20	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130	09/07/21 14:13	09/08/21 18:20	1
o-Terphenyl (Surr)	78		70 - 130	09/07/21 14:13	09/08/21 18:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.2		5.02	mg/Kg			09/08/21 17:05	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-5804-A-1-G MS	Matrix Spike	111	98
880-5804-A-1-H MSD	Matrix Spike Duplicate	93	74
880-5806-1	C-203	99	74
880-5806-2	C-204	101	96
880-5806-3	C-205	115	77
880-5806-4	C-206	121	105
880-5806-5	C-207	124	94
880-5806-6	C-208	129	75
880-5806-7	C-209	130	95
880-5806-8	C-210	124	98
880-5806-9	C-211	134 S1+	95
880-5806-10	C-212	93	89
880-5806-11	C-213	117	105
880-5806-12	C-214	126	102
880-5806-13	C-215	149 S1+	106
880-5806-14	C-216	142 S1+	103
880-5806-15	C-217	89	77
880-5806-16	C-218	118	97
880-5806-17	C-219	123	98
880-5806-18	C-220	129	101
880-5806-18 MS	C-220	120	84
880-5806-18 MSD	C-220	121	102
880-5806-19	C-221	121	98
880-5806-20	C-222	127	95
880-5806-21	C-223	139 S1+	94
880-5806-22	C-224	129	97
880-5806-23	C-225	123	98
880-5806-24	C-226	133 S1+	94
880-5806-25	C-227	126	94
880-5806-26	C-228	123	93
880-5806-27	C-229	123	93
880-5806-28	C-230	131 S1+	96
880-5806-29	C-231	120	95
880-5806-30	C-232	130	96
880-5806-31	C-233	122	95
880-5806-32	C-234	125	98
880-5806-33	C-235	119	95
880-5806-34	C-236	120	92
880-5806-35	C-237	124	95
880-5806-36	C-238	121	97
880-5806-37	C-239	128	99
880-5806-38	C-240	115	95
880-5806-38 MS	C-240	113	104
880-5806-38 MSD	C-240	111	110
880-5806-39	C-241	124	96
880-5806-40	C-242	125	98
880-5806-41	C-243	118	97
880-5806-42	C-244	128	100
880-5806-43	C-245	119	96

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-5806-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-5806-44	C-246	115	97
880-5806-45	C-247	119	92
880-5806-46	C-248	106	96
880-5806-47	C-249	119	94
880-5806-48	C-250	117	89
880-5806-49	C-251	113	96
880-5806-50	C-252	116	98
880-5806-51	C-253	122	94
880-5806-52	C-254	134 S1+	95
880-5806-53	C-255	132 S1+	95
880-5806-54	C-256	110	90
880-5806-55	C-257	127	92
880-5836-A-1-D MS	Matrix Spike	176 S1+	109
880-5836-A-1-E MSD	Matrix Spike Duplicate	115	87
LCS 880-7644/1-A	Lab Control Sample	103	88
LCS 880-7645/1-A	Lab Control Sample	143 S1+	87
LCS 880-7646/1-A	Lab Control Sample	112	107
LCS 880-7647/1-A	Lab Control Sample	107	105
LCS 880-7729/1-A	Lab Control Sample	116	99
LCSD 880-7644/2-A	Lab Control Sample Dup	106	85
LCSD 880-7645/2-A	Lab Control Sample Dup	103	90
LCSD 880-7647/2-A	Lab Control Sample Dup	109	102
MB 880-7644/5-A	Method Blank	120	110
MB 880-7645/5-A	Method Blank	133 S1+	104
MB 880-7646/5-A	Method Blank	105	100
MB 880-7647/5-A	Method Blank	104	97
MB 880-7729/5-A	Method Blank	104	98
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
LCSD 880-7646/2-A	Lab Control Sample Dup		
LCSD 880-7729/2-A	Lab Control Sample Dup		
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-5798-A-1-E MS	Matrix Spike	112	102

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-5806-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-5798-A-1-F MSD	Matrix Spike Duplicate	107	102
880-5804-A-1-E MS	Matrix Spike	100	93
880-5804-A-1-F MSD	Matrix Spike Duplicate	91	84
880-5806-1	C-203	82	77
880-5806-1 MS	C-203	56 S1-	51 S1-
880-5806-1 MSD	C-203	86	77
880-5806-2	C-204	84	87
880-5806-3	C-205	81	79
880-5806-4	C-206	87	85
880-5806-5	C-207	101	103
880-5806-6	C-208	98	92
880-5806-7	C-209	60 S1-	59 S1-
880-5806-8	C-210	91	86
880-5806-9	C-211	74	69 S1-
880-5806-10	C-212	88	90
880-5806-11	C-213	78	78
880-5806-12	C-214	53 S1-	50 S1-
880-5806-13	C-215	78	76
880-5806-14	C-216	88	86
880-5806-15	C-217	100	102
880-5806-16	C-218	110	114
880-5806-17	C-219	121	124
880-5806-18	C-220	90	95
880-5806-19	C-221	119	127
880-5806-20	C-222	116	126
880-5806-21	C-223	96	111
880-5806-21 MS	C-223	94	100
880-5806-21 MSD	C-223	95	101
880-5806-22	C-224	99	116
880-5806-23	C-225	103	118
880-5806-24	C-226	97	111
880-5806-25	C-227	95	107
880-5806-26	C-228	95	109
880-5806-27	C-229	94	108
880-5806-28	C-230	99	114
880-5806-29	C-231	97	110
880-5806-30	C-232	97	110
880-5806-31	C-233	103	124
880-5806-32	C-234	98	114
880-5806-33	C-235	96	114
880-5806-34	C-236	93	108
880-5806-35	C-237	94	111
880-5806-36	C-238	93	106
880-5806-37	C-239	99	113
880-5806-38	C-240	95	106
880-5806-39	C-241	96	109
880-5806-40	C-242	96	109
880-5806-41	C-243	101	103
880-5806-42	C-244	96	101
880-5806-43	C-245	95	103

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-5806-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-5806-44	C-246	97	102
880-5806-45	C-247	95	97
880-5806-46	C-248	104	109
880-5806-47	C-249	106	113
880-5806-48	C-250	104	107
880-5806-49	C-251	102	105
880-5806-50	C-252	101	103
880-5806-51	C-253	109	118
880-5806-52	C-254	112	123
880-5806-53	C-255	94	104
880-5806-54	C-256	95	101
880-5806-55	C-257	76	78
LCS 880-7612/2-A	Lab Control Sample	105	103
LCS 880-7615/2-A	Lab Control Sample	106	106
LCS 880-7616/2-A	Lab Control Sample	101	111
LCS 880-7622/2-A	Lab Control Sample	109	105
LCSD 880-7612/3-A	Lab Control Sample Dup	106	111
LCSD 880-7615/3-A	Lab Control Sample Dup	105	103
LCSD 880-7616/3-A	Lab Control Sample Dup	101	110
LCSD 880-7622/3-A	Lab Control Sample Dup	124	117
MB 880-7612/1-A	Method Blank	97	106
MB 880-7615/1-A	Method Blank	117	124
MB 880-7616/1-A	Method Blank	94	114
MB 880-7622/1-A	Method Blank	102	112

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7644/5-A

Matrix: Solid

Analysis Batch: 7670

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7644

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/08/21 19:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/08/21 19:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/08/21 19:59	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/08/21 11:47	09/08/21 19:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:47	09/08/21 19:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/08/21 11:47	09/08/21 19:59	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/08/21 11:47	09/08/21 19:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	09/08/21 11:47	09/08/21 19:59	1
1,4-Difluorobenzene (Surr)	110		70 - 130	09/08/21 11:47	09/08/21 19:59	1

Lab Sample ID: LCS 880-7644/1-A

Matrix: Solid

Analysis Batch: 7670

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09479		mg/Kg		95	70 - 130
Toluene	0.100	0.1061		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1097		mg/Kg		110	70 - 130
m,p-Xylenes	0.200	0.2028		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: LCSD 880-7644/2-A

Matrix: Solid

Analysis Batch: 7670

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7644

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08767		mg/Kg		88	70 - 130	8	35
Toluene	0.100	0.1040		mg/Kg		104	70 - 130	2	35
Ethylbenzene	0.100	0.1063		mg/Kg		106	70 - 130	3	35
m,p-Xylenes	0.200	0.2004		mg/Kg		100	70 - 130	1	35
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 880-5836-A-1-D MS

Matrix: Solid

Analysis Batch: 7670

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7644

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.163	F1	0.0998	0.1017	F1	mg/Kg		-61	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5836-A-1-D MS

Matrix: Solid

Analysis Batch: 7670

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7644

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.0611	F1	0.0998	0.1033	F1	mg/Kg		42	70 - 130
Ethylbenzene	0.267	F1	0.0998	0.09026	F1	mg/Kg		-177	70 - 130
m,p-Xylenes	0.117	F1	0.200	0.1581	F1	mg/Kg		21	70 - 130
o-Xylene	0.344	F1	0.0998	0.09007	F1	mg/Kg		-254	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	176	S1+	70 - 130						
1,4-Difluorobenzene (Surr)	109		70 - 130						

Lab Sample ID: 880-5836-A-1-E MSD

Matrix: Solid

Analysis Batch: 7670

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7644

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.163	F1	0.100	0.09764	F1	mg/Kg		-65	70 - 130	4	35
Toluene	0.0611	F1	0.100	0.08038	F1	mg/Kg		19	70 - 130	25	35
Ethylbenzene	0.267	F1	0.100	0.09721	F1	mg/Kg		-169	70 - 130	7	35
m,p-Xylenes	0.117	F1	0.200	0.1430	F1	mg/Kg		13	70 - 130	10	35
o-Xylene	0.344	F1	0.100	0.07524	F1	mg/Kg		-268	70 - 130	18	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								
1,4-Difluorobenzene (Surr)	87		70 - 130								

Lab Sample ID: MB 880-7645/5-A

Matrix: Solid

Analysis Batch: 7670

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7645

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:57	09/09/21 07:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:57	09/09/21 07:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:57	09/09/21 07:33	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/08/21 11:57	09/09/21 07:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 11:57	09/09/21 07:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/08/21 11:57	09/09/21 07:33	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/08/21 11:57	09/09/21 07:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	09/08/21 11:57	09/09/21 07:33	1		
1,4-Difluorobenzene (Surr)	104		70 - 130	09/08/21 11:57	09/09/21 07:33	1		

Lab Sample ID: LCS 880-7645/1-A

Matrix: Solid

Analysis Batch: 7670

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09255		mg/Kg		93	70 - 130
Toluene	0.100	0.09254		mg/Kg		93	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-7645/1-A

Matrix: Solid

Analysis Batch: 7670

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130
m,p-Xylenes	0.200	0.1995		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1079		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-7645/2-A

Matrix: Solid

Analysis Batch: 7670

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7645

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08256		mg/Kg		83	70 - 130	11	35
Toluene	0.100	0.09815		mg/Kg		98	70 - 130	6	35
Ethylbenzene	0.100	0.1055		mg/Kg		106	70 - 130	3	35
m,p-Xylenes	0.200	0.1970		mg/Kg		99	70 - 130	1	35
o-Xylene	0.100	0.09939		mg/Kg		99	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-5804-A-1-G MS

Matrix: Solid

Analysis Batch: 7670

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7645

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0218	F1 F2	0.0998	0.06053	F1	mg/Kg		39	70 - 130
Toluene	0.0468	F1 F2	0.0998	0.05219	F1	mg/Kg		5	70 - 130
Ethylbenzene	0.103	F1	0.0998	0.06099	F1	mg/Kg		-42	70 - 130
m,p-Xylenes	0.280	F1 F2	0.200	0.1151	F1	mg/Kg		-83	70 - 130
o-Xylene	0.0523	F1 F2	0.0998	0.07526	F1	mg/Kg		23	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-5804-A-1-H MSD

Matrix: Solid

Analysis Batch: 7670

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7645

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.0218	F1 F2	0.101	0.03166	F1 F2	mg/Kg		10	70 - 130	63	35
Toluene	0.0468	F1 F2	0.101	0.02481	F1 F2	mg/Kg		-22	70 - 130	71	35
Ethylbenzene	0.103	F1	0.101	0.05157	F1	mg/Kg		-51	70 - 130	17	35
m,p-Xylenes	0.280	F1 F2	0.202	0.03935	F1 F2	mg/Kg		-120	70 - 130	98	35
o-Xylene	0.0523	F1 F2	0.101	0.03104	F1 F2	mg/Kg		-21	70 - 130	83	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Lab Sample ID: MB 880-7646/5-A

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7646

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 04:14	1	
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 04:14	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 04:14	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/08/21 12:03	09/11/21 04:14	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:03	09/11/21 04:14	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/08/21 12:03	09/11/21 04:14	1	
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/08/21 12:03	09/11/21 04:14	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	105		70 - 130	09/08/21 12:03	09/11/21 04:14	1			
1,4-Difluorobenzene (Surr)	100		70 - 130	09/08/21 12:03	09/11/21 04:14	1			

Lab Sample ID: LCS 880-7646/1-A

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7646

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.09338		mg/Kg		93	70 - 130		
Toluene	0.100	0.08696		mg/Kg		87	70 - 130		
Ethylbenzene	0.100	0.08504		mg/Kg		85	70 - 130		
m,p-Xylenes	0.200	0.1776		mg/Kg		89	70 - 130		
o-Xylene	0.100	0.08943		mg/Kg		89	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-7646/2-A

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7646

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08804		mg/Kg						
Toluene	0.100	0.09108		mg/Kg						
Ethylbenzene	0.100	0.09617		mg/Kg						
m,p-Xylenes	0.200	0.2166		mg/Kg						
o-Xylene	0.100	0.1132		mg/Kg						

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5806-18 MS

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: C-220

Prep Type: Total/NA

Prep Batch: 7646

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F2 F1	0.0998	0.02058	F1	mg/Kg		21	70 - 130
Toluene	<0.00202	U F1	0.0998	0.01668	F1	mg/Kg		17	70 - 130
Ethylbenzene	<0.00202	U F1	0.0998	0.01470	F1	mg/Kg		15	70 - 130
m,p-Xylenes	<0.00403	U F1	0.200	0.03033	F1	mg/Kg		15	70 - 130
o-Xylene	<0.00202	U F1	0.0998	0.01804	F1	mg/Kg		18	70 - 130
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	120		70 - 130						
1,4-Difluorobenzene (Surr)	84		70 - 130						

Lab Sample ID: 880-5806-18 MSD

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: C-220

Prep Type: Total/NA

Prep Batch: 7646

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F2 F1	0.0994	0.03937	F2 F1	mg/Kg		40	70 - 130	63	35
Toluene	<0.00202	U F1	0.0994	0.02335	F1	mg/Kg		23	70 - 130	33	35
Ethylbenzene	<0.00202	U F1	0.0994	0.01585	F1	mg/Kg		16	70 - 130	8	35
m,p-Xylenes	<0.00403	U F1	0.199	0.03304	F1	mg/Kg		17	70 - 130	9	35
o-Xylene	<0.00202	U F1	0.0994	0.01885	F1	mg/Kg		19	70 - 130	4	35
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	121		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

Lab Sample ID: MB 880-7647/5-A

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7647

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 18:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 18:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 18:45	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/08/21 12:07	09/11/21 18:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/08/21 12:07	09/11/21 18:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/08/21 12:07	09/11/21 18:45	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/08/21 12:07	09/11/21 18:45	1
MB MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared		Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		70 - 130	09/08/21 12:07		09/11/21 18:45	1	
1,4-Difluorobenzene (Surr)	97		70 - 130	09/08/21 12:07		09/11/21 18:45	1	

Lab Sample ID: LCS 880-7647/1-A

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08541		mg/Kg		85	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-7647/1-A

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.100	0.08223		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08418		mg/Kg		84	70 - 130
m,p-Xylenes	0.200	0.1704		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08413		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-7647/2-A

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7647

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08641		mg/Kg		86	70 - 130	1	35
Toluene	0.100	0.08150		mg/Kg		82	70 - 130	1	35
Ethylbenzene	0.100	0.08079		mg/Kg		81	70 - 130	4	35
m,p-Xylenes	0.200	0.1672		mg/Kg		84	70 - 130	2	35
o-Xylene	0.100	0.08378		mg/Kg		84	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-5806-38 MS

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: C-240

Prep Type: Total/NA

Prep Batch: 7647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0998	0.07434		mg/Kg		74	70 - 130
Toluene	<0.00199	U	0.0998	0.07195		mg/Kg		72	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.07062		mg/Kg		71	70 - 130
m,p-Xylenes	<0.00398	U F1	0.200	0.1439		mg/Kg		72	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.07279		mg/Kg		73	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-5806-38 MSD

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: C-240

Prep Type: Total/NA

Prep Batch: 7647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.08456		mg/Kg		84	70 - 130	13	35
Toluene	<0.00199	U	0.101	0.07017		mg/Kg		70	70 - 130	3	35
Ethylbenzene	<0.00199	U F1	0.101	0.06010	F1	mg/Kg		60	70 - 130	16	35
m,p-Xylenes	<0.00398	U F1	0.202	0.1224	F1	mg/Kg		61	70 - 130	16	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5806-38 MSD

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: C-240

Prep Type: Total/NA

Prep Batch: 7647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	<0.00199	U F1	0.101	0.06282	F1	mg/Kg		62	70 - 130	15	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	111		70 - 130								
1,4-Difluorobenzene (Surr)	110		70 - 130								

Lab Sample ID: MB 880-7729/5-A

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7729

MB MB									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		09/10/21 09:09	09/10/21 17:21		1
Toluene	<0.00200	U	0.00200	mg/Kg		09/10/21 09:09	09/10/21 17:21		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/10/21 09:09	09/10/21 17:21		1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/10/21 09:09	09/10/21 17:21		1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/10/21 09:09	09/10/21 17:21		1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/10/21 09:09	09/10/21 17:21		1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/10/21 09:09	09/10/21 17:21		1
MB MB									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		70 - 130			09/10/21 09:09	09/10/21 17:21		1
1,4-Difluorobenzene (Surr)	98		70 - 130			09/10/21 09:09	09/10/21 17:21		1

Lab Sample ID: LCS 880-7729/1-A

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits	RPD	RPD Limit
Benzene	0.100	0.08645		mg/Kg		86		70 - 130		
Toluene	0.100	0.08777		mg/Kg		88		70 - 130		
Ethylbenzene	0.100	0.08937		mg/Kg		89		70 - 130		
m,p-Xylenes	0.200	0.1902		mg/Kg		95		70 - 130		
o-Xylene	0.100	0.09347		mg/Kg		93		70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits							
4-Bromofluorobenzene (Surr)	116		70 - 130							
1,4-Difluorobenzene (Surr)	99		70 - 130							

Lab Sample ID: LCSD 880-7729/2-A

Matrix: Solid

Analysis Batch: 7728

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7729

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08285		mg/Kg					
Toluene	0.100	0.08121		mg/Kg					
Ethylbenzene	0.100	0.08236		mg/Kg					
m,p-Xylenes	0.200	0.1748		mg/Kg					
o-Xylene	0.100	0.08603		mg/Kg					

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-7612/1-A

Matrix: Solid

Analysis Batch: 7632

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7612

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 09:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 09:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 09:35	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 14:13	09/08/21 09:35	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane (Surr)	97		70 - 130	09/07/21 14:13	09/08/21 09:35	1
o-Terphenyl (Surr)	106		70 - 130	09/07/21 14:13	09/08/21 09:35	1

Lab Sample ID: LCS 880-7612/2-A

Matrix: Solid

Analysis Batch: 7632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7612

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits	
		Result	Qualifier					
Gasoline Range Organics (GRO)-C6-C10	1000	912.8		mg/Kg		91	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	871.9		mg/Kg		87	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-7612/3-A

Matrix: Solid

Analysis Batch: 7632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7612

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits		RPD	Limit
		Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	1000	834.3		mg/Kg		83	70 - 130		9	20
Diesel Range Organics (Over C10-C28)	1000	915.4		mg/Kg		92	70 - 130		5	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-5798-A-1-E MS

Matrix: Solid

Analysis Batch: 7632

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7612

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	968.4		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	918.1		mg/Kg		90	70 - 130		

Lab Sample ID: 880-5798-A-1-F MSD

Matrix: Solid

Analysis Batch: 7632

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7612

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	971.3		mg/Kg		95	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	947.6		mg/Kg		93	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	107		70 - 130								
o-Terphenyl (Surr)	102		70 - 130								

Lab Sample ID: MB 880-7615/1-A

Matrix: Solid

Analysis Batch: 7594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7615

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/07/21 21:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/07/21 21:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/07/21 21:22	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:09	09/07/21 21:22	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane (Surr)	117		70 - 130			09/07/21 15:09	09/07/21 21:22	1
o-Terphenyl (Surr)	124		70 - 130			09/07/21 15:09	09/07/21 21:22	1

Lab Sample ID: LCS 880-7615/2-A

Matrix: Solid

Analysis Batch: 7594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7615

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	819.3		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	956.8		mg/Kg		96	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-7615/2-A

Matrix: Solid

Analysis Batch: 7594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7615

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-7615/3-A

Matrix: Solid

Analysis Batch: 7594

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7615

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	830.3		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	934.6		mg/Kg		93	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	103		70 - 130

Lab Sample ID: 880-5806-1 MS

Matrix: Solid

Analysis Batch: 7594

Client Sample ID: C-203

Prep Type: Total/NA

Prep Batch: 7615

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	995	497.4	F1	mg/Kg		50	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	995	544.5	F1	mg/Kg		55	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	56	S1-	70 - 130
o-Terphenyl (Surr)	51	S1-	70 - 130

Lab Sample ID: 880-5806-1 MSD

Matrix: Solid

Analysis Batch: 7594

Client Sample ID: C-203

Prep Type: Total/NA

Prep Batch: 7615

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	998	743.1	F2	mg/Kg		74	70 - 130	40	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	998	837.9	F2	mg/Kg		84	70 - 130	42	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	86		70 - 130
o-Terphenyl (Surr)	77		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-7616/1-A

Matrix: Solid

Analysis Batch: 7628

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7616

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 10:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 10:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 10:39	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 15:21	09/08/21 10:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	09/07/21 15:21	09/08/21 10:39	1
o-Terphenyl (Surr)	114		70 - 130	09/07/21 15:21	09/08/21 10:39	1

Lab Sample ID: LCS 880-7616/2-A

Matrix: Solid

Analysis Batch: 7628

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	827.3		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	988.2		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	101		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-7616/3-A

Matrix: Solid

Analysis Batch: 7628

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7616

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	875.9		mg/Kg		88	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	991.9		mg/Kg		99	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	101		70 - 130
o-Terphenyl (Surr)	110		70 - 130

Lab Sample ID: 880-5806-21 MS

Matrix: Solid

Analysis Batch: 7628

Client Sample ID: C-223

Prep Type: Total/NA

Prep Batch: 7616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	816.4		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	837.4		mg/Kg		84	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-5806-21 MS

Matrix: Solid

Analysis Batch: 7628

Client Sample ID: C-223

Prep Type: Total/NA

Prep Batch: 7616

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	94		70 - 130
o-Terphenyl (Surr)	100		70 - 130

Lab Sample ID: 880-5806-21 MSD

Matrix: Solid

Analysis Batch: 7628

Client Sample ID: C-223

Prep Type: Total/NA

Prep Batch: 7616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	797.0		mg/Kg		80	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	862.0		mg/Kg		86	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	101		70 - 130

Lab Sample ID: MB 880-7622/1-A

Matrix: Solid

Analysis Batch: 7630

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7622

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/07/21 16:33	09/08/21 10:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/07/21 16:33	09/08/21 10:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/07/21 16:33	09/08/21 10:39	1
Total TPH	<50.0	U	50.0	mg/Kg		09/07/21 16:33	09/08/21 10:39	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	102		70 - 130	09/07/21 16:33	09/08/21 10:39	1
o-Terphenyl (Surr)	112		70 - 130	09/07/21 16:33	09/08/21 10:39	1

Lab Sample ID: LCS 880-7622/2-A

Matrix: Solid

Analysis Batch: 7630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	868.7		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	985.0		mg/Kg		99	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	105		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-7622/3-A

Matrix: Solid

Analysis Batch: 7630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7622

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	974.9		mg/Kg		97	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	1119		mg/Kg		112	70 - 130	13	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	124		70 - 130						
o-Terphenyl (Surr)	117		70 - 130						

Lab Sample ID: 880-5804-A-1-E MS

Matrix: Solid

Analysis Batch: 7630

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	841.1		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	1007		mg/Kg		99	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	100		70 - 130								
o-Terphenyl (Surr)	93		70 - 130								

Lab Sample ID: 880-5804-A-1-F MSD

Matrix: Solid

Analysis Batch: 7630

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	791.2		mg/Kg		79	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	913.1		mg/Kg		89	70 - 130	10	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	91		70 - 130								
o-Terphenyl (Surr)	84		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7610/1-A

Matrix: Solid

Analysis Batch: 7624

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/08/21 15:05	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-7610/2-A

Matrix: Solid

Analysis Batch: 7624

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	253.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-7610/3-A

Matrix: Solid

Analysis Batch: 7624

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	255.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-5806-48 MS

Matrix: Solid

Analysis Batch: 7624

Client Sample ID: C-250

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	28.4		253	288.6		mg/Kg		103	90 - 110

Lab Sample ID: MB 880-7602/1-A

Matrix: Solid

Analysis Batch: 7625

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/08/21 17:53	1

Lab Sample ID: LCS 880-7602/2-A

Matrix: Solid

Analysis Batch: 7625

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	253.7		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-7602/3-A

Matrix: Solid

Analysis Batch: 7625

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	254.6		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-5805-A-7-B MS

Matrix: Solid

Analysis Batch: 7625

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	26.1		249	282.8		mg/Kg		103	90 - 110

Lab Sample ID: 880-5805-A-7-C MSD

Matrix: Solid

Analysis Batch: 7625

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	26.1		249	283.5		mg/Kg		104	90 - 110	0	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7603/1-A

Matrix: Solid

Analysis Batch: 7626

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/08/21 21:10	1

Lab Sample ID: LCS 880-7603/2-A

Matrix: Solid

Analysis Batch: 7626

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	256.6		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-7603/3-A

Matrix: Solid

Analysis Batch: 7626

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	257.3		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-5806-8 MS

Matrix: Solid

Analysis Batch: 7626

Client Sample ID: C-210

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	23.3		248	275.2		mg/Kg		102	90 - 110

Lab Sample ID: 880-5806-8 MSD

Matrix: Solid

Analysis Batch: 7626

Client Sample ID: C-210

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	23.3		248	275.8		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-5806-18 MS

Matrix: Solid

Analysis Batch: 7626

Client Sample ID: C-220

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	86.7		249	337.9		mg/Kg		101	90 - 110

Lab Sample ID: 880-5806-18 MSD

Matrix: Solid

Analysis Batch: 7626

Client Sample ID: C-220

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	86.7		249	339.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-7604/1-A

Matrix: Solid

Analysis Batch: 7671

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/09/21 00:27	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-7604/2-A

Matrix: Solid

Analysis Batch: 7671

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	258.1		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-7604/3-A

Matrix: Solid

Analysis Batch: 7671

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	259.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-5806-28 MS

Matrix: Solid

Analysis Batch: 7671

Client Sample ID: C-230

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	54.0		250	314.5		mg/Kg		104	90 - 110		

Lab Sample ID: 880-5806-28 MSD

Matrix: Solid

Analysis Batch: 7671

Client Sample ID: C-230

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	54.0		250	315.5		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-5806-38 MS

Matrix: Solid

Analysis Batch: 7671

Client Sample ID: C-240

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	45.9		249	305.3		mg/Kg		104	90 - 110		

Lab Sample ID: 880-5806-38 MSD

Matrix: Solid

Analysis Batch: 7671

Client Sample ID: C-240

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	45.9		249	306.5		mg/Kg		105	90 - 110	0	20

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

GC VOA

Prep Batch: 7644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-1	C-203	Total/NA	Solid	5035	
880-5806-2	C-204	Total/NA	Solid	5035	
880-5806-3	C-205	Total/NA	Solid	5035	
880-5806-4	C-206	Total/NA	Solid	5035	
880-5806-5	C-207	Total/NA	Solid	5035	
880-5806-6	C-208	Total/NA	Solid	5035	
880-5806-8	C-210	Total/NA	Solid	5035	
880-5806-9	C-211	Total/NA	Solid	5035	
880-5806-10	C-212	Total/NA	Solid	5035	
MB 880-7644/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7644/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7644/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5836-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-5836-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 7645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-11	C-213	Total/NA	Solid	5035	
880-5806-12	C-214	Total/NA	Solid	5035	
880-5806-13	C-215	Total/NA	Solid	5035	
880-5806-14	C-216	Total/NA	Solid	5035	
880-5806-15	C-217	Total/NA	Solid	5035	
880-5806-16	C-218	Total/NA	Solid	5035	
880-5806-17	C-219	Total/NA	Solid	5035	
MB 880-7645/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7645/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7645/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5804-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
880-5804-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 7646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-18	C-220	Total/NA	Solid	5035	
880-5806-19	C-221	Total/NA	Solid	5035	
880-5806-20	C-222	Total/NA	Solid	5035	
880-5806-21	C-223	Total/NA	Solid	5035	
880-5806-22	C-224	Total/NA	Solid	5035	
880-5806-23	C-225	Total/NA	Solid	5035	
880-5806-24	C-226	Total/NA	Solid	5035	
880-5806-25	C-227	Total/NA	Solid	5035	
880-5806-26	C-228	Total/NA	Solid	5035	
880-5806-27	C-229	Total/NA	Solid	5035	
880-5806-28	C-230	Total/NA	Solid	5035	
880-5806-29	C-231	Total/NA	Solid	5035	
880-5806-30	C-232	Total/NA	Solid	5035	
880-5806-31	C-233	Total/NA	Solid	5035	
880-5806-32	C-234	Total/NA	Solid	5035	
880-5806-33	C-235	Total/NA	Solid	5035	
880-5806-34	C-236	Total/NA	Solid	5035	
880-5806-35	C-237	Total/NA	Solid	5035	
880-5806-36	C-238	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 7646 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-37	C-239	Total/NA	Solid	5035	
MB 880-7646/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7646/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7646/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5806-18 MS	C-220	Total/NA	Solid	5035	
880-5806-18 MSD	C-220	Total/NA	Solid	5035	

Prep Batch: 7647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-38	C-240	Total/NA	Solid	5035	
880-5806-39	C-241	Total/NA	Solid	5035	
880-5806-40	C-242	Total/NA	Solid	5035	
880-5806-41	C-243	Total/NA	Solid	5035	
880-5806-42	C-244	Total/NA	Solid	5035	
880-5806-43	C-245	Total/NA	Solid	5035	
880-5806-44	C-246	Total/NA	Solid	5035	
880-5806-45	C-247	Total/NA	Solid	5035	
880-5806-46	C-248	Total/NA	Solid	5035	
880-5806-47	C-249	Total/NA	Solid	5035	
880-5806-48	C-250	Total/NA	Solid	5035	
880-5806-49	C-251	Total/NA	Solid	5035	
880-5806-50	C-252	Total/NA	Solid	5035	
880-5806-51	C-253	Total/NA	Solid	5035	
880-5806-52	C-254	Total/NA	Solid	5035	
880-5806-53	C-255	Total/NA	Solid	5035	
880-5806-54	C-256	Total/NA	Solid	5035	
880-5806-55	C-257	Total/NA	Solid	5035	
MB 880-7647/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7647/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7647/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5806-38 MS	C-240	Total/NA	Solid	5035	
880-5806-38 MSD	C-240	Total/NA	Solid	5035	

Analysis Batch: 7670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-1	C-203	Total/NA	Solid	8021B	7644
880-5806-2	C-204	Total/NA	Solid	8021B	7644
880-5806-3	C-205	Total/NA	Solid	8021B	7644
880-5806-4	C-206	Total/NA	Solid	8021B	7644
880-5806-5	C-207	Total/NA	Solid	8021B	7644
880-5806-6	C-208	Total/NA	Solid	8021B	7644
880-5806-8	C-210	Total/NA	Solid	8021B	7644
880-5806-9	C-211	Total/NA	Solid	8021B	7644
880-5806-10	C-212	Total/NA	Solid	8021B	7644
880-5806-11	C-213	Total/NA	Solid	8021B	7645
880-5806-12	C-214	Total/NA	Solid	8021B	7645
880-5806-13	C-215	Total/NA	Solid	8021B	7645
880-5806-14	C-216	Total/NA	Solid	8021B	7645
880-5806-15	C-217	Total/NA	Solid	8021B	7645
880-5806-16	C-218	Total/NA	Solid	8021B	7645
880-5806-17	C-219	Total/NA	Solid	8021B	7645

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 7670 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7644/5-A	Method Blank	Total/NA	Solid	8021B	7644
MB 880-7645/5-A	Method Blank	Total/NA	Solid	8021B	7645
LCS 880-7644/1-A	Lab Control Sample	Total/NA	Solid	8021B	7644
LCS 880-7645/1-A	Lab Control Sample	Total/NA	Solid	8021B	7645
LCSD 880-7644/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7644
LCSD 880-7645/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7645
880-5804-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	7645
880-5804-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7645
880-5836-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	7644
880-5836-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7644

Analysis Batch: 7728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-7	C-209	Total/NA	Solid	8021B	7729
880-5806-18	C-220	Total/NA	Solid	8021B	7646
880-5806-19	C-221	Total/NA	Solid	8021B	7646
880-5806-20	C-222	Total/NA	Solid	8021B	7646
880-5806-21	C-223	Total/NA	Solid	8021B	7646
880-5806-22	C-224	Total/NA	Solid	8021B	7646
880-5806-23	C-225	Total/NA	Solid	8021B	7646
880-5806-24	C-226	Total/NA	Solid	8021B	7646
880-5806-25	C-227	Total/NA	Solid	8021B	7646
880-5806-26	C-228	Total/NA	Solid	8021B	7646
880-5806-27	C-229	Total/NA	Solid	8021B	7646
880-5806-28	C-230	Total/NA	Solid	8021B	7646
880-5806-29	C-231	Total/NA	Solid	8021B	7646
880-5806-30	C-232	Total/NA	Solid	8021B	7646
880-5806-31	C-233	Total/NA	Solid	8021B	7646
880-5806-32	C-234	Total/NA	Solid	8021B	7646
880-5806-33	C-235	Total/NA	Solid	8021B	7646
880-5806-34	C-236	Total/NA	Solid	8021B	7646
880-5806-35	C-237	Total/NA	Solid	8021B	7646
880-5806-36	C-238	Total/NA	Solid	8021B	7646
880-5806-37	C-239	Total/NA	Solid	8021B	7646
880-5806-38	C-240	Total/NA	Solid	8021B	7647
880-5806-39	C-241	Total/NA	Solid	8021B	7647
880-5806-40	C-242	Total/NA	Solid	8021B	7647
880-5806-41	C-243	Total/NA	Solid	8021B	7647
880-5806-42	C-244	Total/NA	Solid	8021B	7647
880-5806-43	C-245	Total/NA	Solid	8021B	7647
880-5806-44	C-246	Total/NA	Solid	8021B	7647
880-5806-45	C-247	Total/NA	Solid	8021B	7647
880-5806-46	C-248	Total/NA	Solid	8021B	7647
880-5806-47	C-249	Total/NA	Solid	8021B	7647
880-5806-48	C-250	Total/NA	Solid	8021B	7647
880-5806-49	C-251	Total/NA	Solid	8021B	7647
880-5806-50	C-252	Total/NA	Solid	8021B	7647
880-5806-51	C-253	Total/NA	Solid	8021B	7647
880-5806-52	C-254	Total/NA	Solid	8021B	7647
880-5806-53	C-255	Total/NA	Solid	8021B	7647
880-5806-54	C-256	Total/NA	Solid	8021B	7647

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 7728 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-55	C-257	Total/NA	Solid	8021B	7647
MB 880-7646/5-A	Method Blank	Total/NA	Solid	8021B	7646
MB 880-7647/5-A	Method Blank	Total/NA	Solid	8021B	7647
MB 880-7729/5-A	Method Blank	Total/NA	Solid	8021B	7729
LCS 880-7646/1-A	Lab Control Sample	Total/NA	Solid	8021B	7646
LCS 880-7647/1-A	Lab Control Sample	Total/NA	Solid	8021B	7647
LCS 880-7729/1-A	Lab Control Sample	Total/NA	Solid	8021B	7729
LCSD 880-7646/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7646
LCSD 880-7647/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7647
LCSD 880-7729/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7729
880-5806-18 MS	C-220	Total/NA	Solid	8021B	7646
880-5806-18 MSD	C-220	Total/NA	Solid	8021B	7646
880-5806-38 MS	C-240	Total/NA	Solid	8021B	7647
880-5806-38 MSD	C-240	Total/NA	Solid	8021B	7647

Prep Batch: 7729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-7	C-209	Total/NA	Solid	5035	
MB 880-7729/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7729/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7729/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 7594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-1	C-203	Total/NA	Solid	8015B NM	7615
880-5806-2	C-204	Total/NA	Solid	8015B NM	7615
880-5806-3	C-205	Total/NA	Solid	8015B NM	7615
880-5806-4	C-206	Total/NA	Solid	8015B NM	7615
880-5806-5	C-207	Total/NA	Solid	8015B NM	7615
880-5806-6	C-208	Total/NA	Solid	8015B NM	7615
880-5806-7	C-209	Total/NA	Solid	8015B NM	7615
880-5806-8	C-210	Total/NA	Solid	8015B NM	7615
880-5806-9	C-211	Total/NA	Solid	8015B NM	7615
880-5806-10	C-212	Total/NA	Solid	8015B NM	7615
880-5806-11	C-213	Total/NA	Solid	8015B NM	7615
880-5806-12	C-214	Total/NA	Solid	8015B NM	7615
880-5806-13	C-215	Total/NA	Solid	8015B NM	7615
880-5806-14	C-216	Total/NA	Solid	8015B NM	7615
880-5806-15	C-217	Total/NA	Solid	8015B NM	7615
880-5806-16	C-218	Total/NA	Solid	8015B NM	7615
880-5806-17	C-219	Total/NA	Solid	8015B NM	7615
880-5806-18	C-220	Total/NA	Solid	8015B NM	7615
880-5806-19	C-221	Total/NA	Solid	8015B NM	7615
880-5806-20	C-222	Total/NA	Solid	8015B NM	7615
MB 880-7615/1-A	Method Blank	Total/NA	Solid	8015B NM	7615
LCS 880-7615/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7615
LCSD 880-7615/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7615
880-5806-1 MS	C-203	Total/NA	Solid	8015B NM	7615
880-5806-1 MSD	C-203	Total/NA	Solid	8015B NM	7615

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 7612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-47	C-249	Total/NA	Solid	8015NM Prep	
880-5806-48	C-250	Total/NA	Solid	8015NM Prep	
880-5806-49	C-251	Total/NA	Solid	8015NM Prep	
880-5806-50	C-252	Total/NA	Solid	8015NM Prep	
880-5806-51	C-253	Total/NA	Solid	8015NM Prep	
880-5806-52	C-254	Total/NA	Solid	8015NM Prep	
880-5806-53	C-255	Total/NA	Solid	8015NM Prep	
880-5806-54	C-256	Total/NA	Solid	8015NM Prep	
880-5806-55	C-257	Total/NA	Solid	8015NM Prep	
MB 880-7612/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7612/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7612/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5798-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5798-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 7615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-1	C-203	Total/NA	Solid	8015NM Prep	
880-5806-2	C-204	Total/NA	Solid	8015NM Prep	
880-5806-3	C-205	Total/NA	Solid	8015NM Prep	
880-5806-4	C-206	Total/NA	Solid	8015NM Prep	
880-5806-5	C-207	Total/NA	Solid	8015NM Prep	
880-5806-6	C-208	Total/NA	Solid	8015NM Prep	
880-5806-7	C-209	Total/NA	Solid	8015NM Prep	
880-5806-8	C-210	Total/NA	Solid	8015NM Prep	
880-5806-9	C-211	Total/NA	Solid	8015NM Prep	
880-5806-10	C-212	Total/NA	Solid	8015NM Prep	
880-5806-11	C-213	Total/NA	Solid	8015NM Prep	
880-5806-12	C-214	Total/NA	Solid	8015NM Prep	
880-5806-13	C-215	Total/NA	Solid	8015NM Prep	
880-5806-14	C-216	Total/NA	Solid	8015NM Prep	
880-5806-15	C-217	Total/NA	Solid	8015NM Prep	
880-5806-16	C-218	Total/NA	Solid	8015NM Prep	
880-5806-17	C-219	Total/NA	Solid	8015NM Prep	
880-5806-18	C-220	Total/NA	Solid	8015NM Prep	
880-5806-19	C-221	Total/NA	Solid	8015NM Prep	
880-5806-20	C-222	Total/NA	Solid	8015NM Prep	
MB 880-7615/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7615/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7615/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5806-1 MS	C-203	Total/NA	Solid	8015NM Prep	
880-5806-1 MSD	C-203	Total/NA	Solid	8015NM Prep	

Prep Batch: 7616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-21	C-223	Total/NA	Solid	8015NM Prep	
880-5806-22	C-224	Total/NA	Solid	8015NM Prep	
880-5806-23	C-225	Total/NA	Solid	8015NM Prep	
880-5806-24	C-226	Total/NA	Solid	8015NM Prep	
880-5806-25	C-227	Total/NA	Solid	8015NM Prep	
880-5806-26	C-228	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 7616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-27	C-229	Total/NA	Solid	8015NM Prep	
880-5806-28	C-230	Total/NA	Solid	8015NM Prep	
880-5806-29	C-231	Total/NA	Solid	8015NM Prep	
880-5806-30	C-232	Total/NA	Solid	8015NM Prep	
880-5806-31	C-233	Total/NA	Solid	8015NM Prep	
880-5806-32	C-234	Total/NA	Solid	8015NM Prep	
880-5806-33	C-235	Total/NA	Solid	8015NM Prep	
880-5806-34	C-236	Total/NA	Solid	8015NM Prep	
880-5806-35	C-237	Total/NA	Solid	8015NM Prep	
880-5806-36	C-238	Total/NA	Solid	8015NM Prep	
880-5806-37	C-239	Total/NA	Solid	8015NM Prep	
880-5806-38	C-240	Total/NA	Solid	8015NM Prep	
880-5806-39	C-241	Total/NA	Solid	8015NM Prep	
880-5806-40	C-242	Total/NA	Solid	8015NM Prep	
MB 880-7616/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7616/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7616/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5806-21 MS	C-223	Total/NA	Solid	8015NM Prep	
880-5806-21 MSD	C-223	Total/NA	Solid	8015NM Prep	

Prep Batch: 7622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-41	C-243	Total/NA	Solid	8015NM Prep	
880-5806-42	C-244	Total/NA	Solid	8015NM Prep	
880-5806-43	C-245	Total/NA	Solid	8015NM Prep	
880-5806-44	C-246	Total/NA	Solid	8015NM Prep	
880-5806-45	C-247	Total/NA	Solid	8015NM Prep	
880-5806-46	C-248	Total/NA	Solid	8015NM Prep	
MB 880-7622/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7622/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5804-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5804-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 7628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-21	C-223	Total/NA	Solid	8015B NM	7616
880-5806-22	C-224	Total/NA	Solid	8015B NM	7616
880-5806-23	C-225	Total/NA	Solid	8015B NM	7616
880-5806-24	C-226	Total/NA	Solid	8015B NM	7616
880-5806-25	C-227	Total/NA	Solid	8015B NM	7616
880-5806-26	C-228	Total/NA	Solid	8015B NM	7616
880-5806-27	C-229	Total/NA	Solid	8015B NM	7616
880-5806-28	C-230	Total/NA	Solid	8015B NM	7616
880-5806-29	C-231	Total/NA	Solid	8015B NM	7616
880-5806-30	C-232	Total/NA	Solid	8015B NM	7616
880-5806-31	C-233	Total/NA	Solid	8015B NM	7616
880-5806-32	C-234	Total/NA	Solid	8015B NM	7616
880-5806-33	C-235	Total/NA	Solid	8015B NM	7616
880-5806-34	C-236	Total/NA	Solid	8015B NM	7616
880-5806-35	C-237	Total/NA	Solid	8015B NM	7616

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 7628 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-36	C-238	Total/NA	Solid	8015B NM	7616
880-5806-37	C-239	Total/NA	Solid	8015B NM	7616
880-5806-38	C-240	Total/NA	Solid	8015B NM	7616
880-5806-39	C-241	Total/NA	Solid	8015B NM	7616
880-5806-40	C-242	Total/NA	Solid	8015B NM	7616
MB 880-7616/1-A	Method Blank	Total/NA	Solid	8015B NM	7616
LCS 880-7616/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7616
LCSD 880-7616/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7616
880-5806-21 MS	C-223	Total/NA	Solid	8015B NM	7616
880-5806-21 MSD	C-223	Total/NA	Solid	8015B NM	7616

Analysis Batch: 7630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-41	C-243	Total/NA	Solid	8015B NM	7622
880-5806-42	C-244	Total/NA	Solid	8015B NM	7622
880-5806-43	C-245	Total/NA	Solid	8015B NM	7622
880-5806-44	C-246	Total/NA	Solid	8015B NM	7622
880-5806-45	C-247	Total/NA	Solid	8015B NM	7622
880-5806-46	C-248	Total/NA	Solid	8015B NM	7622
MB 880-7622/1-A	Method Blank	Total/NA	Solid	8015B NM	7622
LCS 880-7622/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7622
LCSD 880-7622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7622
880-5804-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	7622
880-5804-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7622

Analysis Batch: 7632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-47	C-249	Total/NA	Solid	8015B NM	7612
880-5806-48	C-250	Total/NA	Solid	8015B NM	7612
880-5806-49	C-251	Total/NA	Solid	8015B NM	7612
880-5806-50	C-252	Total/NA	Solid	8015B NM	7612
880-5806-51	C-253	Total/NA	Solid	8015B NM	7612
880-5806-52	C-254	Total/NA	Solid	8015B NM	7612
880-5806-53	C-255	Total/NA	Solid	8015B NM	7612
880-5806-54	C-256	Total/NA	Solid	8015B NM	7612
880-5806-55	C-257	Total/NA	Solid	8015B NM	7612
MB 880-7612/1-A	Method Blank	Total/NA	Solid	8015B NM	7612
LCS 880-7612/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7612
LCSD 880-7612/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7612
880-5798-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	7612
880-5798-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7612

HPLC/IC

Leach Batch: 7602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-1	C-203	Soluble	Solid	DI Leach	
880-5806-2	C-204	Soluble	Solid	DI Leach	
880-5806-3	C-205	Soluble	Solid	DI Leach	
880-5806-4	C-206	Soluble	Solid	DI Leach	
880-5806-5	C-207	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 7602 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-6	C-208	Soluble	Solid	DI Leach	
880-5806-7	C-209	Soluble	Solid	DI Leach	
MB 880-7602/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7602/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7602/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5805-A-7-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-5805-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 7603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-8	C-210	Soluble	Solid	DI Leach	
880-5806-9	C-211	Soluble	Solid	DI Leach	
880-5806-10	C-212	Soluble	Solid	DI Leach	
880-5806-11	C-213	Soluble	Solid	DI Leach	
880-5806-12	C-214	Soluble	Solid	DI Leach	
880-5806-13	C-215	Soluble	Solid	DI Leach	
880-5806-14	C-216	Soluble	Solid	DI Leach	
880-5806-15	C-217	Soluble	Solid	DI Leach	
880-5806-16	C-218	Soluble	Solid	DI Leach	
880-5806-17	C-219	Soluble	Solid	DI Leach	
880-5806-18	C-220	Soluble	Solid	DI Leach	
880-5806-19	C-221	Soluble	Solid	DI Leach	
880-5806-20	C-222	Soluble	Solid	DI Leach	
880-5806-21	C-223	Soluble	Solid	DI Leach	
880-5806-22	C-224	Soluble	Solid	DI Leach	
880-5806-23	C-225	Soluble	Solid	DI Leach	
880-5806-24	C-226	Soluble	Solid	DI Leach	
880-5806-25	C-227	Soluble	Solid	DI Leach	
880-5806-26	C-228	Soluble	Solid	DI Leach	
880-5806-27	C-229	Soluble	Solid	DI Leach	
MB 880-7603/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7603/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7603/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5806-8 MS	C-210	Soluble	Solid	DI Leach	
880-5806-8 MSD	C-210	Soluble	Solid	DI Leach	
880-5806-18 MS	C-220	Soluble	Solid	DI Leach	
880-5806-18 MSD	C-220	Soluble	Solid	DI Leach	

Leach Batch: 7604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-28	C-230	Soluble	Solid	DI Leach	
880-5806-29	C-231	Soluble	Solid	DI Leach	
880-5806-30	C-232	Soluble	Solid	DI Leach	
880-5806-31	C-233	Soluble	Solid	DI Leach	
880-5806-32	C-234	Soluble	Solid	DI Leach	
880-5806-33	C-235	Soluble	Solid	DI Leach	
880-5806-34	C-236	Soluble	Solid	DI Leach	
880-5806-35	C-237	Soluble	Solid	DI Leach	
880-5806-36	C-238	Soluble	Solid	DI Leach	
880-5806-37	C-239	Soluble	Solid	DI Leach	
880-5806-38	C-240	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 7604 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-39	C-241	Soluble	Solid	DI Leach	
880-5806-40	C-242	Soluble	Solid	DI Leach	
880-5806-41	C-243	Soluble	Solid	DI Leach	
880-5806-42	C-244	Soluble	Solid	DI Leach	
880-5806-43	C-245	Soluble	Solid	DI Leach	
880-5806-44	C-246	Soluble	Solid	DI Leach	
880-5806-45	C-247	Soluble	Solid	DI Leach	
880-5806-46	C-248	Soluble	Solid	DI Leach	
880-5806-47	C-249	Soluble	Solid	DI Leach	
MB 880-7604/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7604/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7604/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5806-28 MS	C-230	Soluble	Solid	DI Leach	
880-5806-28 MSD	C-230	Soluble	Solid	DI Leach	
880-5806-38 MS	C-240	Soluble	Solid	DI Leach	
880-5806-38 MSD	C-240	Soluble	Solid	DI Leach	

Leach Batch: 7610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-48	C-250	Soluble	Solid	DI Leach	
880-5806-49	C-251	Soluble	Solid	DI Leach	
880-5806-50	C-252	Soluble	Solid	DI Leach	
880-5806-51	C-253	Soluble	Solid	DI Leach	
880-5806-52	C-254	Soluble	Solid	DI Leach	
880-5806-53	C-255	Soluble	Solid	DI Leach	
880-5806-54	C-256	Soluble	Solid	DI Leach	
880-5806-55	C-257	Soluble	Solid	DI Leach	
MB 880-7610/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7610/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7610/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5806-48 MS	C-250	Soluble	Solid	DI Leach	
880-5806-48 MSD	C-250	Soluble	Solid	DI Leach	

Analysis Batch: 7624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-48	C-250	Soluble	Solid	300.0	7610
880-5806-49	C-251	Soluble	Solid	300.0	7610
880-5806-50	C-252	Soluble	Solid	300.0	7610
880-5806-51	C-253	Soluble	Solid	300.0	7610
880-5806-52	C-254	Soluble	Solid	300.0	7610
880-5806-53	C-255	Soluble	Solid	300.0	7610
880-5806-54	C-256	Soluble	Solid	300.0	7610
880-5806-55	C-257	Soluble	Solid	300.0	7610
MB 880-7610/1-A	Method Blank	Soluble	Solid	300.0	7610
LCS 880-7610/2-A	Lab Control Sample	Soluble	Solid	300.0	7610
LCSD 880-7610/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7610
880-5806-48 MS	C-250	Soluble	Solid	300.0	7610
880-5806-48 MSD	C-250	Soluble	Solid	300.0	7610

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 7625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-1	C-203	Soluble	Solid	300.0	7602
880-5806-2	C-204	Soluble	Solid	300.0	7602
880-5806-3	C-205	Soluble	Solid	300.0	7602
880-5806-4	C-206	Soluble	Solid	300.0	7602
880-5806-5	C-207	Soluble	Solid	300.0	7602
880-5806-6	C-208	Soluble	Solid	300.0	7602
880-5806-7	C-209	Soluble	Solid	300.0	7602
MB 880-7602/1-A	Method Blank	Soluble	Solid	300.0	7602
LCS 880-7602/2-A	Lab Control Sample	Soluble	Solid	300.0	7602
LCSD 880-7602/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7602
880-5805-A-7-B MS	Matrix Spike	Soluble	Solid	300.0	7602
880-5805-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7602

Analysis Batch: 7626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-8	C-210	Soluble	Solid	300.0	7603
880-5806-9	C-211	Soluble	Solid	300.0	7603
880-5806-10	C-212	Soluble	Solid	300.0	7603
880-5806-11	C-213	Soluble	Solid	300.0	7603
880-5806-12	C-214	Soluble	Solid	300.0	7603
880-5806-13	C-215	Soluble	Solid	300.0	7603
880-5806-14	C-216	Soluble	Solid	300.0	7603
880-5806-15	C-217	Soluble	Solid	300.0	7603
880-5806-16	C-218	Soluble	Solid	300.0	7603
880-5806-17	C-219	Soluble	Solid	300.0	7603
880-5806-18	C-220	Soluble	Solid	300.0	7603
880-5806-19	C-221	Soluble	Solid	300.0	7603
880-5806-20	C-222	Soluble	Solid	300.0	7603
880-5806-21	C-223	Soluble	Solid	300.0	7603
880-5806-22	C-224	Soluble	Solid	300.0	7603
880-5806-23	C-225	Soluble	Solid	300.0	7603
880-5806-24	C-226	Soluble	Solid	300.0	7603
880-5806-25	C-227	Soluble	Solid	300.0	7603
880-5806-26	C-228	Soluble	Solid	300.0	7603
880-5806-27	C-229	Soluble	Solid	300.0	7603
MB 880-7603/1-A	Method Blank	Soluble	Solid	300.0	7603
LCS 880-7603/2-A	Lab Control Sample	Soluble	Solid	300.0	7603
LCSD 880-7603/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7603
880-5806-8 MS	C-210	Soluble	Solid	300.0	7603
880-5806-8 MSD	C-210	Soluble	Solid	300.0	7603
880-5806-18 MS	C-220	Soluble	Solid	300.0	7603
880-5806-18 MSD	C-220	Soluble	Solid	300.0	7603

Analysis Batch: 7671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-28	C-230	Soluble	Solid	300.0	7604
880-5806-29	C-231	Soluble	Solid	300.0	7604
880-5806-30	C-232	Soluble	Solid	300.0	7604
880-5806-31	C-233	Soluble	Solid	300.0	7604
880-5806-32	C-234	Soluble	Solid	300.0	7604
880-5806-33	C-235	Soluble	Solid	300.0	7604

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 7671 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5806-34	C-236	Soluble	Solid	300.0	7604
880-5806-35	C-237	Soluble	Solid	300.0	7604
880-5806-36	C-238	Soluble	Solid	300.0	7604
880-5806-37	C-239	Soluble	Solid	300.0	7604
880-5806-38	C-240	Soluble	Solid	300.0	7604
880-5806-39	C-241	Soluble	Solid	300.0	7604
880-5806-40	C-242	Soluble	Solid	300.0	7604
880-5806-41	C-243	Soluble	Solid	300.0	7604
880-5806-42	C-244	Soluble	Solid	300.0	7604
880-5806-43	C-245	Soluble	Solid	300.0	7604
880-5806-44	C-246	Soluble	Solid	300.0	7604
880-5806-45	C-247	Soluble	Solid	300.0	7604
880-5806-46	C-248	Soluble	Solid	300.0	7604
880-5806-47	C-249	Soluble	Solid	300.0	7604
MB 880-7604/1-A	Method Blank	Soluble	Solid	300.0	7604
LCS 880-7604/2-A	Lab Control Sample	Soluble	Solid	300.0	7604
LCSD 880-7604/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7604
880-5806-28 MS	C-230	Soluble	Solid	300.0	7604
880-5806-28 MSD	C-230	Soluble	Solid	300.0	7604
880-5806-38 MS	C-240	Soluble	Solid	300.0	7604
880-5806-38 MSD	C-240	Soluble	Solid	300.0	7604

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-203

Lab Sample ID: 880-5806-1

Date Collected: 09/01/21 14:30

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7644	09/08/21 11:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 01:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/07/21 22:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7602	09/07/21 11:58	CH	XEN MID
Soluble	Analysis	300.0		1			7625	09/08/21 20:09	SC	XEN MID

Client Sample ID: C-204

Lab Sample ID: 880-5806-2

Date Collected: 09/01/21 14:31

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7644	09/08/21 11:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 01:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/07/21 23:26	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7602	09/07/21 11:58	CH	XEN MID
Soluble	Analysis	300.0		1			7625	09/08/21 20:14	SC	XEN MID

Client Sample ID: C-205

Lab Sample ID: 880-5806-3

Date Collected: 09/01/21 14:32

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7644	09/08/21 11:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 02:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/07/21 23:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7602	09/07/21 11:58	CH	XEN MID
Soluble	Analysis	300.0		1			7625	09/08/21 20:20	SC	XEN MID

Client Sample ID: C-206

Lab Sample ID: 880-5806-4

Date Collected: 09/01/21 14:33

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7644	09/08/21 11:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 02:22	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 00:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7602	09/07/21 11:58	CH	XEN MID
Soluble	Analysis	300.0		5			7625	09/08/21 20:25	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-207

Lab Sample ID: 880-5806-5

Date Collected: 09/01/21 14:34

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7644	09/08/21 11:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 02:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 00:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7602	09/07/21 11:58	CH	XEN MID
Soluble	Analysis	300.0		1			7625	09/08/21 20:31	SC	XEN MID

Client Sample ID: C-208

Lab Sample ID: 880-5806-6

Date Collected: 09/01/21 14:35

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7644	09/08/21 11:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 03:03	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 00:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7602	09/07/21 11:58	CH	XEN MID
Soluble	Analysis	300.0		1			7625	09/08/21 20:37	SC	XEN MID

Client Sample ID: C-209

Lab Sample ID: 880-5806-7

Date Collected: 09/01/21 14:36

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7729	09/10/21 09:09	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/10/21 22:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 01:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7602	09/07/21 11:58	CH	XEN MID
Soluble	Analysis	300.0		1			7625	09/08/21 20:42	SC	XEN MID

Client Sample ID: C-210

Lab Sample ID: 880-5806-8

Date Collected: 09/01/21 14:37

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7644	09/08/21 11:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 03:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 01:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 21:27	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-211

Lab Sample ID: 880-5806-9

Date Collected: 09/01/21 14:38

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7644	09/08/21 11:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 04:04	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 01:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 21:44	SC	XEN MID

Client Sample ID: C-212

Lab Sample ID: 880-5806-10

Date Collected: 09/01/21 14:39

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7644	09/08/21 11:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 04:24	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 02:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 21:50	SC	XEN MID

Client Sample ID: C-213

Lab Sample ID: 880-5806-11

Date Collected: 09/01/21 14:40

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7645	09/08/21 11:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 13:56	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 02:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 21:55	SC	XEN MID

Client Sample ID: C-214

Lab Sample ID: 880-5806-12

Date Collected: 09/01/21 14:41

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	7645	09/08/21 11:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 14:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 03:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 22:01	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-215

Lab Sample ID: 880-5806-13

Date Collected: 09/01/21 14:42

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7645	09/08/21 11:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 14:37	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 03:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 22:18	SC	XEN MID

Client Sample ID: C-216

Lab Sample ID: 880-5806-14

Date Collected: 09/01/21 14:43

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7645	09/08/21 11:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 14:58	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 04:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 22:23	SC	XEN MID

Client Sample ID: C-217

Lab Sample ID: 880-5806-15

Date Collected: 09/02/21 15:00

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7645	09/08/21 11:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 15:18	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 04:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 22:29	SC	XEN MID

Client Sample ID: C-218

Lab Sample ID: 880-5806-16

Date Collected: 09/02/21 15:01

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7645	09/08/21 11:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 15:38	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 04:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 22:34	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-219

Lab Sample ID: 880-5806-17

Date Collected: 09/02/21 15:02

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7645	09/08/21 11:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 15:59	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 05:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 22:40	SC	XEN MID

Client Sample ID: C-220

Lab Sample ID: 880-5806-18

Date Collected: 09/02/21 15:03

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 04:35	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 05:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 22:46	SC	XEN MID

Client Sample ID: C-221

Lab Sample ID: 880-5806-19

Date Collected: 09/02/21 15:04

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 04:56	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 05:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 23:02	SC	XEN MID

Client Sample ID: C-222

Lab Sample ID: 880-5806-20

Date Collected: 09/02/21 15:05

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 05:16	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7615	09/07/21 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7594	09/08/21 06:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 23:08	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-223

Lab Sample ID: 880-5806-21

Date Collected: 09/02/21 15:06

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 05:37	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 11:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 23:25	SC	XEN MID

Client Sample ID: C-224

Lab Sample ID: 880-5806-22

Date Collected: 09/02/21 15:07

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 05:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 12:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 23:31	SC	XEN MID

Client Sample ID: C-225

Lab Sample ID: 880-5806-23

Date Collected: 09/02/21 15:08

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 06:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 13:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 23:36	SC	XEN MID

Client Sample ID: C-226

Lab Sample ID: 880-5806-24

Date Collected: 09/02/21 16:08

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 06:38	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 13:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 23:42	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-227

Lab Sample ID: 880-5806-25

Date Collected: 09/02/21 15:10

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 06:58	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 13:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 23:47	SC	XEN MID

Client Sample ID: C-228

Lab Sample ID: 880-5806-26

Date Collected: 09/02/21 15:11

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 07:19	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 14:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 23:53	SC	XEN MID

Client Sample ID: C-229

Lab Sample ID: 880-5806-27

Date Collected: 09/02/21 15:12

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 07:39	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7603	09/07/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			7626	09/08/21 23:59	SC	XEN MID

Client Sample ID: C-230

Lab Sample ID: 880-5806-28

Date Collected: 09/02/21 15:13

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 09:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 14:55	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 00:44	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-231

Lab Sample ID: 880-5806-29

Date Collected: 09/02/21 15:14

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 09:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 15:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 01:01	SC	XEN MID

Client Sample ID: C-232

Lab Sample ID: 880-5806-30

Date Collected: 09/02/21 15:15

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 09:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 15:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 01:06	SC	XEN MID

Client Sample ID: C-233

Lab Sample ID: 880-5806-31

Date Collected: 09/02/21 15:16

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 10:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 16:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 01:12	SC	XEN MID

Client Sample ID: C-234

Lab Sample ID: 880-5806-32

Date Collected: 09/02/21 15:17

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 10:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 16:40	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 01:17	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-235

Lab Sample ID: 880-5806-33

Date Collected: 09/02/21 15:18

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 10:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 17:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 01:34	SC	XEN MID

Client Sample ID: C-236

Lab Sample ID: 880-5806-34

Date Collected: 09/02/21 15:19

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 11:03	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 01:40	SC	XEN MID

Client Sample ID: C-237

Lab Sample ID: 880-5806-35

Date Collected: 09/02/21 15:20

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 11:24	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 01:45	SC	XEN MID

Client Sample ID: C-238

Lab Sample ID: 880-5806-36

Date Collected: 09/02/21 15:21

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 11:44	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 18:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 01:51	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-239

Lab Sample ID: 880-5806-37

Date Collected: 09/02/21 15:22

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7646	09/08/21 12:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 12:05	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 18:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 01:57	SC	XEN MID

Client Sample ID: C-240

Lab Sample ID: 880-5806-38

Date Collected: 09/02/21 15:23

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 19:07	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 18:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 02:02	SC	XEN MID

Client Sample ID: C-241

Lab Sample ID: 880-5806-39

Date Collected: 09/02/21 15:24

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 19:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 19:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 02:19	SC	XEN MID

Client Sample ID: C-242

Lab Sample ID: 880-5806-40

Date Collected: 09/02/21 15:25

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 19:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7616	09/07/21 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/08/21 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 02:25	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-243

Lab Sample ID: 880-5806-41

Date Collected: 09/02/21 15:26

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 20:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7622	09/07/21 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 13:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 02:41	SC	XEN MID

Client Sample ID: C-244

Lab Sample ID: 880-5806-42

Date Collected: 09/02/21 15:27

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 20:28	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7622	09/07/21 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 14:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 02:47	SC	XEN MID

Client Sample ID: C-245

Lab Sample ID: 880-5806-43

Date Collected: 09/02/21 15:28

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 20:49	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7622	09/07/21 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 02:53	SC	XEN MID

Client Sample ID: C-246

Lab Sample ID: 880-5806-44

Date Collected: 09/02/21 15:29

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 21:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7622	09/07/21 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 14:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 02:58	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-247

Lab Sample ID: 880-5806-45

Date Collected: 09/02/21 15:30

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 21:30	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7622	09/07/21 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 15:16	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 03:04	SC	XEN MID

Client Sample ID: C-248

Lab Sample ID: 880-5806-46

Date Collected: 09/02/21 15:31

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 21:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7622	09/07/21 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 15:37	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 03:09	SC	XEN MID

Client Sample ID: C-249

Lab Sample ID: 880-5806-47

Date Collected: 09/02/21 15:32

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 22:11	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7612	09/07/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7632	09/08/21 15:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7604	09/07/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			7671	09/09/21 03:15	SC	XEN MID

Client Sample ID: C-250

Lab Sample ID: 880-5806-48

Date Collected: 09/02/21 15:33

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 23:33	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7612	09/07/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7632	09/08/21 15:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7610	09/07/21 13:54	SC	XEN MID
Soluble	Analysis	300.0		1			7624	09/08/21 16:35	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-251

Lab Sample ID: 880-5806-49

Date Collected: 09/02/21 15:34

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/11/21 23:53	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7612	09/07/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7632	09/08/21 16:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7610	09/07/21 13:54	SC	XEN MID
Soluble	Analysis	300.0		1			7624	09/08/21 16:42	SC	XEN MID

Client Sample ID: C-252

Lab Sample ID: 880-5806-50

Date Collected: 09/02/21 15:35

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/12/21 00:13	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7612	09/07/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7632	09/08/21 16:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7610	09/07/21 13:54	SC	XEN MID
Soluble	Analysis	300.0		1			7624	09/08/21 15:57	SC	XEN MID

Client Sample ID: C-253

Lab Sample ID: 880-5806-51

Date Collected: 09/02/21 15:36

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/12/21 00:34	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7612	09/07/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7632	09/08/21 16:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	7610	09/07/21 13:54	SC	XEN MID
Soluble	Analysis	300.0		1			7624	09/08/21 16:05	SC	XEN MID

Client Sample ID: C-254

Lab Sample ID: 880-5806-52

Date Collected: 09/02/21 15:37

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/12/21 00:54	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7612	09/07/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7632	09/08/21 17:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7610	09/07/21 13:54	SC	XEN MID
Soluble	Analysis	300.0		1			7624	09/08/21 16:12	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Client Sample ID: C-255

Lab Sample ID: 880-5806-53

Date Collected: 09/02/21 15:38

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/12/21 01:15	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7612	09/07/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7632	09/08/21 17:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7610	09/07/21 13:54	SC	XEN MID
Soluble	Analysis	300.0		1			7624	09/08/21 16:50	SC	XEN MID

Client Sample ID: C-256

Lab Sample ID: 880-5806-54

Date Collected: 09/02/21 15:39

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/12/21 01:35	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7612	09/07/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7632	09/08/21 17:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7610	09/07/21 13:54	SC	XEN MID
Soluble	Analysis	300.0		1			7624	09/08/21 16:57	SC	XEN MID

Client Sample ID: C-257

Lab Sample ID: 880-5806-55

Date Collected: 09/02/21 15:40

Matrix: Solid

Date Received: 09/07/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7647	09/08/21 12:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7728	09/12/21 01:56	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7612	09/07/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7632	09/08/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	7610	09/07/21 13:54	SC	XEN MID
Soluble	Analysis	300.0		1			7624	09/08/21 17:05	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5806-1	C-203	Solid	09/01/21 14:30	09/07/21 10:26
880-5806-2	C-204	Solid	09/01/21 14:31	09/07/21 10:26
880-5806-3	C-205	Solid	09/01/21 14:32	09/07/21 10:26
880-5806-4	C-206	Solid	09/01/21 14:33	09/07/21 10:26
880-5806-5	C-207	Solid	09/01/21 14:34	09/07/21 10:26
880-5806-6	C-208	Solid	09/01/21 14:35	09/07/21 10:26
880-5806-7	C-209	Solid	09/01/21 14:36	09/07/21 10:26
880-5806-8	C-210	Solid	09/01/21 14:37	09/07/21 10:26
880-5806-9	C-211	Solid	09/01/21 14:38	09/07/21 10:26
880-5806-10	C-212	Solid	09/01/21 14:39	09/07/21 10:26
880-5806-11	C-213	Solid	09/01/21 14:40	09/07/21 10:26
880-5806-12	C-214	Solid	09/01/21 14:41	09/07/21 10:26
880-5806-13	C-215	Solid	09/01/21 14:42	09/07/21 10:26
880-5806-14	C-216	Solid	09/01/21 14:43	09/07/21 10:26
880-5806-15	C-217	Solid	09/02/21 15:00	09/07/21 10:26
880-5806-16	C-218	Solid	09/02/21 15:01	09/07/21 10:26
880-5806-17	C-219	Solid	09/02/21 15:02	09/07/21 10:26
880-5806-18	C-220	Solid	09/02/21 15:03	09/07/21 10:26
880-5806-19	C-221	Solid	09/02/21 15:04	09/07/21 10:26
880-5806-20	C-222	Solid	09/02/21 15:05	09/07/21 10:26
880-5806-21	C-223	Solid	09/02/21 15:06	09/07/21 10:26
880-5806-22	C-224	Solid	09/02/21 15:07	09/07/21 10:26
880-5806-23	C-225	Solid	09/02/21 15:08	09/07/21 10:26
880-5806-24	C-226	Solid	09/02/21 16:08	09/07/21 10:26
880-5806-25	C-227	Solid	09/02/21 15:10	09/07/21 10:26
880-5806-26	C-228	Solid	09/02/21 15:11	09/07/21 10:26
880-5806-27	C-229	Solid	09/02/21 15:12	09/07/21 10:26
880-5806-28	C-230	Solid	09/02/21 15:13	09/07/21 10:26
880-5806-29	C-231	Solid	09/02/21 15:14	09/07/21 10:26
880-5806-30	C-232	Solid	09/02/21 15:15	09/07/21 10:26
880-5806-31	C-233	Solid	09/02/21 15:16	09/07/21 10:26
880-5806-32	C-234	Solid	09/02/21 15:17	09/07/21 10:26
880-5806-33	C-235	Solid	09/02/21 15:18	09/07/21 10:26
880-5806-34	C-236	Solid	09/02/21 15:19	09/07/21 10:26
880-5806-35	C-237	Solid	09/02/21 15:20	09/07/21 10:26
880-5806-36	C-238	Solid	09/02/21 15:21	09/07/21 10:26
880-5806-37	C-239	Solid	09/02/21 15:22	09/07/21 10:26
880-5806-38	C-240	Solid	09/02/21 15:23	09/07/21 10:26
880-5806-39	C-241	Solid	09/02/21 15:24	09/07/21 10:26
880-5806-40	C-242	Solid	09/02/21 15:25	09/07/21 10:26
880-5806-41	C-243	Solid	09/02/21 15:26	09/07/21 10:26
880-5806-42	C-244	Solid	09/02/21 15:27	09/07/21 10:26
880-5806-43	C-245	Solid	09/02/21 15:28	09/07/21 10:26
880-5806-44	C-246	Solid	09/02/21 15:29	09/07/21 10:26
880-5806-45	C-247	Solid	09/02/21 15:30	09/07/21 10:26
880-5806-46	C-248	Solid	09/02/21 15:31	09/07/21 10:26
880-5806-47	C-249	Solid	09/02/21 15:32	09/07/21 10:26
880-5806-48	C-250	Solid	09/02/21 15:33	09/07/21 10:26
880-5806-49	C-251	Solid	09/02/21 15:34	09/07/21 10:26
880-5806-50	C-252	Solid	09/02/21 15:35	09/07/21 10:26
880-5806-51	C-253	Solid	09/02/21 15:36	09/07/21 10:26
880-5806-52	C-254	Solid	09/02/21 15:37	09/07/21 10:26
880-5806-53	C-255	Solid	09/02/21 15:38	09/07/21 10:26
880-5806-54	C-256	Solid	09/02/21 15:39	09/07/21 10:26

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-5806-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5806-55	C-257	Solid	09/02/21 15:40	09/07/21 10:26

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

9/13/2021

507 N Marensfeld Ste 202
Midland TX 79701
432 687 0901

DATE 9/12  PAGE 2 OF 4
PO# 880-5506-01 COC LAB WORK ORDER#
PROJECT LOCATION OR NAME Palmio 1ST
LAI PROJECT # 21-0105-02 COLLECTOR DSG



CHAIN-OF-CUSTODY

No. 2090

[illegible]

A

ason & associates, Inc.
 Environmental Consultants

507 N Marengo Ste 202
 Midland TX 79701
 432 687-0901

Data Reported to

DATE 9/17/2021 PO# LAB WORK ORDER# PAGE 3 OF 4
 PROJECT LOCATION OR NAME Palmito AS T
 LAI PROJECT # 21-0105-02 COLLECTOR ASG



No. 2091
CHAIN-OF-CUSTODY

TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		TIME ZONE		TIME zone/State		MST / AM	
Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐	NaOH ☐	ICE	UNPRESERVED
C-233		9/16/21	1516	5	1					X	
C-234			1517							X	
C-235			1518							X	
C-236			1519							X	
C-237			1520							X	
C-238			1521							X	
C-239			1522							X	
C-240			1523							X	
C-241			1524							X	
C-242			1525							X	
C-243			1526							X	
C-244			1527							X	
C-245			1528							X	
C-246			1529							X	
C-247			1530							X	
TOTAL											

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
<i>[Signature]</i>	9/17/21	<i>[Signature]</i>	9/17/21
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
LABORATORY <i>XenCo</i>			

TURN AROUND TIME	LABORATORY USE ONLY:
NORMAL ☒	RECEIVING TEMP <u>18/2.3</u> THERM# <u>R8</u>
1 DAY ☐	CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
2 DAY ☐	CARRIER BILL # <u> </u>
OTHER ☐	HAND DELIVERED ☒

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-5806-1

SDG Number: 21-0105-02

Login Number: 5806

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-6058-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: PALMIO AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
9/20/2021 12:01:50 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Laboratory Job ID: 880-6058-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Midland

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Job ID: 880-6058-1

Laboratory: Eurofins Xenco, Midland

Narrative

**Job Narrative
880-6058-1**

Receipt

The samples were received on 9/14/2021 10:18 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-321 (880-6058-64). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7875 and 880-7876 and analytical batch 880-7877 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-7876/5-A) and (880-6058-A-21-A MS). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-301 (880-6058-44), C-304 (880-6058-47), C-309 (880-6058-52), C-313 (880-6058-56), C-315 (880-6058-58) and C-316 (880-6058-59). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-283 (880-6058-26), C-295 (880-6058-38) and (MB 880-7882/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-7933/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7895 and analytical batch 880-7910 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7879 and analytical batch 880-7924 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-258

Lab Sample ID: 880-6058-1

Date Collected: 09/08/21 13:00

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198	mg/Kg		09/14/21 11:05	09/14/21 18:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/14/21 11:05	09/14/21 18:06	1
Ethylbenzene	<0.00198	U F1	0.00198	mg/Kg		09/14/21 11:05	09/14/21 18:06	1
m,p-Xylenes	<0.00397	U F1	0.00397	mg/Kg		09/14/21 11:05	09/14/21 18:06	1
o-Xylene	<0.00198	U F1	0.00198	mg/Kg		09/14/21 11:05	09/14/21 18:06	1
Xylenes, Total	<0.00397	U F1	0.00397	mg/Kg		09/14/21 11:05	09/14/21 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	09/14/21 11:05	09/14/21 18:06	1
1,4-Difluorobenzene (Surr)	78		70 - 130	09/14/21 11:05	09/14/21 18:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 11:23	09/14/21 13:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 11:23	09/14/21 13:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 11:23	09/14/21 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	09/14/21 11:23	09/14/21 13:51	1
o-Terphenyl (Surr)	110		70 - 130	09/14/21 11:23	09/14/21 13:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.9		5.00	mg/Kg			09/15/21 23:44	1

Client Sample ID: C-259

Lab Sample ID: 880-6058-2

Date Collected: 09/08/21 13:01

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 18:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 18:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 18:27	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/14/21 11:05	09/14/21 18:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 18:27	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/14/21 11:05	09/14/21 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/14/21 11:05	09/14/21 18:27	1
1,4-Difluorobenzene (Surr)	112		70 - 130	09/14/21 11:05	09/14/21 18:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 15:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 15:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 15:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-259

Lab Sample ID: 880-6058-2

Date Collected: 09/08/21 13:01

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	09/14/21 11:23	09/14/21 15:30	1
o-Terphenyl (Surr)	111		70 - 130	09/14/21 11:23	09/14/21 15:30	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.0		4.97	mg/Kg			09/15/21 23:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: C-260

Lab Sample ID: 880-6058-3

Date Collected: 09/08/21 13:02

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 18:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 18:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 18:48	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/14/21 11:05	09/14/21 18:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 18:48	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/14/21 11:05	09/14/21 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	09/14/21 11:05	09/14/21 18:48	1
1,4-Difluorobenzene (Surr)	87		70 - 130	09/14/21 11:05	09/14/21 18:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 15:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 15:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	09/14/21 11:23	09/14/21 15:51	1
o-Terphenyl (Surr)	105		70 - 130	09/14/21 11:23	09/14/21 15:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.7		4.98	mg/Kg			09/15/21 23:56	1

Client Sample ID: C-261

Lab Sample ID: 880-6058-4

Date Collected: 09/08/21 13:03

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 19:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 19:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 19:09	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/14/21 11:05	09/14/21 19:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 19:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/14/21 11:05	09/14/21 19:09	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-261

Lab Sample ID: 880-6058-4

Date Collected: 09/08/21 13:03

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	09/14/21 11:05	09/14/21 19:09	1
1,4-Difluorobenzene (Surr)	72		70 - 130	09/14/21 11:05	09/14/21 19:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	09/14/21 11:23	09/14/21 16:13	1
o-Terphenyl (Surr)	105		70 - 130	09/14/21 11:23	09/14/21 16:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Chloride	25.9	F1	5.00	mg/Kg		1

Client Sample ID: C-262

Lab Sample ID: 880-6058-5

Date Collected: 09/08/21 13:04

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Benzene	0.00254		0.00202	mg/Kg		1
Toluene	<0.00202	U	0.00202	mg/Kg		1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		1
o-Xylene	0.00205		0.00202	mg/Kg		1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/14/21 11:05	09/14/21 19:30	1
1,4-Difluorobenzene (Surr)	117		70 - 130	09/14/21 11:05	09/14/21 19:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	09/14/21 11:23	09/14/21 16:34	1
o-Terphenyl (Surr)	106		70 - 130	09/14/21 11:23	09/14/21 16:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Chloride	21.2		4.99	mg/Kg		1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-263

Lab Sample ID: 880-6058-6

Date Collected: 09/08/21 13:05

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/14/21 19:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/14/21 19:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/14/21 19:50	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:05	09/14/21 19:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/14/21 19:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:05	09/14/21 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	09/14/21 11:05	09/14/21 19:50	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/14/21 11:05	09/14/21 19:50	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 16:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 16:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	09/14/21 11:23	09/14/21 16:55	1
o-Terphenyl (Surr)	107		70 - 130	09/14/21 11:23	09/14/21 16:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		4.98	mg/Kg			09/16/21 00:24	1

Client Sample ID: C-264

Lab Sample ID: 880-6058-7

Date Collected: 09/08/21 13:06

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 20:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 20:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 20:11	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 11:05	09/14/21 20:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 20:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 11:05	09/14/21 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	09/14/21 11:05	09/14/21 20:11	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/14/21 11:05	09/14/21 20:11	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 17:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 17:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 17:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-264

Lab Sample ID: 880-6058-7

Date Collected: 09/08/21 13:06

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/14/21 11:23	09/14/21 17:17	1
o-Terphenyl (Surr)	112		70 - 130			09/14/21 11:23	09/14/21 17:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.4		4.95	mg/Kg			09/16/21 00:41	1

Client Sample ID: C-265

Lab Sample ID: 880-6058-8

Date Collected: 09/08/21 13:07

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:05	09/14/21 20:32	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:05	09/14/21 20:32	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:05	09/14/21 20:32	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/14/21 11:05	09/14/21 20:32	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:05	09/14/21 20:32	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/14/21 11:05	09/14/21 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	09/14/21 11:05	09/14/21 20:32	1
1,4-Difluorobenzene (Surr)	111		70 - 130	09/14/21 11:05	09/14/21 20:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/15/21 11:57	09/16/21 03:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/15/21 11:57	09/16/21 03:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/15/21 11:57	09/16/21 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	09/15/21 11:57	09/16/21 03:41	1
o-Terphenyl (Surr)	124		70 - 130	09/15/21 11:57	09/16/21 03:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.6		4.97	mg/Kg			09/16/21 00:47	1

Client Sample ID: C-266

Lab Sample ID: 880-6058-9

Date Collected: 09/08/21 13:08

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 20:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 20:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 20:53	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/14/21 11:05	09/14/21 20:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 20:53	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/14/21 11:05	09/14/21 20:53	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-266

Lab Sample ID: 880-6058-9

Date Collected: 09/08/21 13:08

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/14/21 11:05	09/14/21 20:53	1
1,4-Difluorobenzene (Surr)	119		70 - 130	09/14/21 11:05	09/14/21 20:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	09/14/21 11:23	09/14/21 17:39	1
o-Terphenyl (Surr)	121		70 - 130	09/14/21 11:23	09/14/21 17:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	
Chloride	28.3		4.99	mg/Kg		

Client Sample ID: C-267

Lab Sample ID: 880-6058-10

Date Collected: 09/08/21 13:09

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	
Benzene	<0.00201	U	0.00201	mg/Kg		
Toluene	<0.00201	U	0.00201	mg/Kg		
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		
o-Xylene	<0.00201	U	0.00201	mg/Kg		
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/14/21 11:05	09/14/21 21:14	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/14/21 11:05	09/14/21 21:14	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	09/14/21 11:23	09/14/21 18:00	1
o-Terphenyl (Surr)	108		70 - 130	09/14/21 11:23	09/14/21 18:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	
Chloride	53.1		5.00	mg/Kg		

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-268

Lab Sample ID: 880-6058-11

Date Collected: 09/08/21 13:10

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/14/21 22:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/14/21 22:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/14/21 22:39	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:05	09/14/21 22:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/14/21 22:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:05	09/14/21 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/14/21 11:05	09/14/21 22:39	1
1,4-Difluorobenzene (Surr)	118		70 - 130	09/14/21 11:05	09/14/21 22:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 18:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 18:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	09/14/21 11:23	09/14/21 18:43	1
o-Terphenyl (Surr)	119		70 - 130	09/14/21 11:23	09/14/21 18:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.4		5.00	mg/Kg			09/16/21 01:03	1

Client Sample ID: C-269

Lab Sample ID: 880-6058-12

Date Collected: 09/08/21 13:11

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 23:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 23:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 23:00	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/14/21 11:05	09/14/21 23:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 23:00	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/14/21 11:05	09/14/21 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	09/14/21 11:05	09/14/21 23:00	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/14/21 11:05	09/14/21 23:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 19:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 19:05	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-269

Lab Sample ID: 880-6058-12

Date Collected: 09/08/21 13:11

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	09/14/21 11:23	09/14/21 19:05	1
o-Terphenyl (Surr)	117		70 - 130	09/14/21 11:23	09/14/21 19:05	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.00	mg/Kg			09/16/21 01:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: C-270

Lab Sample ID: 880-6058-13

Date Collected: 09/08/21 13:12

Matrix: Solid

Date Received: 09/14/21 10:18

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 23:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 23:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 23:21	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/14/21 11:05	09/14/21 23:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 23:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/14/21 11:05	09/14/21 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	09/14/21 11:05	09/14/21 23:21	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/14/21 11:05	09/14/21 23:21	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 19:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 19:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 11:23	09/14/21 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	09/14/21 11:23	09/14/21 19:26	1
o-Terphenyl (Surr)	117		70 - 130	09/14/21 11:23	09/14/21 19:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		4.98	mg/Kg			09/16/21 01:15	1

Client Sample ID: C-271

Lab Sample ID: 880-6058-14

Date Collected: 09/08/21 13:13

Matrix: Solid

Date Received: 09/14/21 10:18

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/14/21 23:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/14/21 23:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/14/21 23:42	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:05	09/14/21 23:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/14/21 23:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:05	09/14/21 23:42	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-271

Lab Sample ID: 880-6058-14

Date Collected: 09/08/21 13:13

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			09/14/21 11:05	09/14/21 23:42	1
1,4-Difluorobenzene (Surr)	96		70 - 130			09/14/21 11:05	09/14/21 23:42	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 11:23	09/14/21 19:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 11:23	09/14/21 19:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 11:23	09/14/21 19:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/14/21 11:23	09/14/21 19:47	1
o-Terphenyl (Surr)	109		70 - 130			09/14/21 11:23	09/14/21 19:47	1
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.3		5.00	mg/Kg			09/16/21 20:42	

Client Sample ID: C-272

Lab Sample ID: 880-6058-15

Date Collected: 09/08/21 13:14

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:05	09/15/21 00:03	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:05	09/15/21 00:03	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:05	09/15/21 00:03	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/14/21 11:05	09/15/21 00:03	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:05	09/15/21 00:03	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/14/21 11:05	09/15/21 00:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			09/14/21 11:05	09/15/21 00:03	1
1,4-Difluorobenzene (Surr)	86		70 - 130			09/14/21 11:05	09/15/21 00:03	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 20:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 20:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 20:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			09/14/21 11:23	09/14/21 20:09	1
o-Terphenyl (Surr)	109		70 - 130			09/14/21 11:23	09/14/21 20:09	1
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.2		4.99	mq/Kg			09/16/21 20:59	

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-273

Lab Sample ID: 880-6058-16

Date Collected: 09/08/21 13:15

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/15/21 00:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/15/21 00:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/15/21 00:24	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/14/21 11:05	09/15/21 00:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/15/21 00:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/14/21 11:05	09/15/21 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	09/14/21 11:05	09/15/21 00:24	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/14/21 11:05	09/15/21 00:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 20:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 20:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	09/14/21 11:23	09/14/21 20:31	1
o-Terphenyl (Surr)	107		70 - 130	09/14/21 11:23	09/14/21 20:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.2		4.98	mg/Kg			09/16/21 21:05	1

Client Sample ID: C-274

Lab Sample ID: 880-6058-17

Date Collected: 09/08/21 13:16

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/15/21 00:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/15/21 00:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/15/21 00:45	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:05	09/15/21 00:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/15/21 00:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:05	09/15/21 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/14/21 11:05	09/15/21 00:45	1
1,4-Difluorobenzene (Surr)	72		70 - 130	09/14/21 11:05	09/15/21 00:45	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 11:23	09/14/21 20:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 11:23	09/14/21 20:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 11:23	09/14/21 20:52	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-274

Lab Sample ID: 880-6058-17

Date Collected: 09/08/21 13:16

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	09/14/21 11:23	09/14/21 20:52	1
o-Terphenyl (Surr)	107		70 - 130	09/14/21 11:23	09/14/21 20:52	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		4.97	mg/Kg			09/16/21 21:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: C-275

Lab Sample ID: 880-6058-18

Date Collected: 09/08/21 13:17

Matrix: Solid

Date Received: 09/14/21 10:18

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/15/21 01:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/15/21 01:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/15/21 01:06	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:05	09/15/21 01:06	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:05	09/15/21 01:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:05	09/15/21 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	09/14/21 11:05	09/15/21 01:06	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/14/21 11:05	09/15/21 01:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 21:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 21:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	09/14/21 11:23	09/14/21 21:14	1
o-Terphenyl (Surr)	113		70 - 130	09/14/21 11:23	09/14/21 21:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		4.95	mg/Kg			09/16/21 21:16	1

Client Sample ID: C-276

Lab Sample ID: 880-6058-19

Date Collected: 09/08/21 13:18

Matrix: Solid

Date Received: 09/14/21 10:18

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:05	09/15/21 01:27	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:05	09/15/21 01:27	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:05	09/15/21 01:27	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/14/21 11:05	09/15/21 01:27	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:05	09/15/21 01:27	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/14/21 11:05	09/15/21 01:27	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-276

Lab Sample ID: 880-6058-19

Date Collected: 09/08/21 13:18

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	09/14/21 11:05	09/15/21 01:27	1
1,4-Difluorobenzene (Surr)	78		70 - 130	09/14/21 11:05	09/15/21 01:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	09/14/21 11:23	09/14/21 21:36	1
o-Terphenyl (Surr)	107		70 - 130	09/14/21 11:23	09/14/21 21:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Chloride	114		4.97	mg/Kg		1

Client Sample ID: C-277

Lab Sample ID: 880-6058-20

Date Collected: 09/08/21 13:19

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		1
Toluene	<0.00200	U	0.00200	mg/Kg		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		1
o-Xylene	<0.00200	U	0.00200	mg/Kg		1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/14/21 11:05	09/15/21 01:48	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/14/21 11:05	09/15/21 01:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	09/14/21 11:23	09/14/21 21:58	1
o-Terphenyl (Surr)	108		70 - 130	09/14/21 11:23	09/14/21 21:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Chloride	51.5		4.96	mg/Kg		1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-278

Lab Sample ID: 880-6058-21

Date Collected: 09/08/21 13:20

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199	mg/Kg		09/14/21 11:08	09/15/21 05:16	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		09/14/21 11:08	09/15/21 05:16	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		09/14/21 11:08	09/15/21 05:16	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		09/14/21 11:08	09/15/21 05:16	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		09/14/21 11:08	09/15/21 05:16	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		09/14/21 11:08	09/15/21 05:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/14/21 11:08	09/15/21 05:16	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/14/21 11:08	09/15/21 05:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 11:24	09/14/21 13:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 11:24	09/14/21 13:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 11:24	09/14/21 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130	09/14/21 11:24	09/14/21 13:51	1
o-Terphenyl (Surr)	120		70 - 130	09/14/21 11:24	09/14/21 13:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		4.99	mg/Kg			09/16/21 21:44	1

Client Sample ID: C-279

Lab Sample ID: 880-6058-22

Date Collected: 09/08/21 13:21

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 05:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 05:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 05:37	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/14/21 11:08	09/15/21 05:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 05:37	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/14/21 11:08	09/15/21 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/14/21 11:08	09/15/21 05:37	1
1,4-Difluorobenzene (Surr)	83		70 - 130	09/14/21 11:08	09/15/21 05:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 15:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 15:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 15:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-279

Lab Sample ID: 880-6058-22

Date Collected: 09/08/21 13:21

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	125		70 - 130	09/14/21 11:24	09/14/21 15:30	1
o-Terphenyl (Surr)	127		70 - 130	09/14/21 11:24	09/14/21 15:30	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.6		5.00	mg/Kg			09/16/21 21:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: C-280

Lab Sample ID: 880-6058-23

Date Collected: 09/08/21 13:22

Matrix: Solid

Date Received: 09/14/21 10:18

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 05:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 05:58	1
Ethylbenzene	0.00283		0.00199	mg/Kg		09/14/21 11:08	09/15/21 05:58	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:08	09/15/21 05:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 05:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:08	09/15/21 05:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/14/21 11:08	09/15/21 05:58	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/14/21 11:08	09/15/21 05:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 15:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 15:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130	09/14/21 11:24	09/14/21 15:51	1
o-Terphenyl (Surr)	123		70 - 130	09/14/21 11:24	09/14/21 15:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.9		4.95	mg/Kg			09/16/21 21:55	1

Client Sample ID: C-281

Lab Sample ID: 880-6058-24

Date Collected: 09/08/21 13:23

Matrix: Solid

Date Received: 09/14/21 10:18

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 06:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 06:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 06:18	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:08	09/15/21 06:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 06:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:08	09/15/21 06:18	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-281

Lab Sample ID: 880-6058-24

Date Collected: 09/08/21 13:23

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			09/14/21 11:08	09/15/21 06:18	1
1,4-Difluorobenzene (Surr)	85		70 - 130			09/14/21 11:08	09/15/21 06:18	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 16:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 16:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			09/14/21 11:24	09/14/21 16:13	1
o-Terphenyl (Surr)	118		70 - 130			09/14/21 11:24	09/14/21 16:13	1
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		5.04	mg/Kg			09/16/21 22:01	

Client Sample ID: C-282

Lab Sample ID: 880-6058-25

Date Collected: 09/08/21 13:24

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 06:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 06:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 06:39	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 11:08	09/15/21 06:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 06:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 11:08	09/15/21 06:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			09/14/21 11:08	09/15/21 06:39	1
1,4-Difluorobenzene (Surr)	84		70 - 130			09/14/21 11:08	09/15/21 06:39	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 11:24	09/14/21 16:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 11:24	09/14/21 16:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 11:24	09/14/21 16:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130			09/14/21 11:24	09/14/21 16:34	1
o-Terphenyl (Surr)	117		70 - 130			09/14/21 11:24	09/14/21 16:34	1
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.1		5.00	mq/Kg			09/16/21 22:17	

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-283

Lab Sample ID: 880-6058-26

Date Collected: 09/08/21 13:25

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/14/21 11:08	09/15/21 07:00	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/14/21 11:08	09/15/21 07:00	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/14/21 11:08	09/15/21 07:00	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/14/21 11:08	09/15/21 07:00	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/14/21 11:08	09/15/21 07:00	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/14/21 11:08	09/15/21 07:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/14/21 11:08	09/15/21 07:00	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/14/21 11:08	09/15/21 07:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 16:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 16:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	136	S1+	70 - 130	09/14/21 11:24	09/14/21 16:55	1
o-Terphenyl (Surr)	140	S1+	70 - 130	09/14/21 11:24	09/14/21 16:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.98	mg/Kg			09/16/21 22:23	1

Client Sample ID: C-284

Lab Sample ID: 880-6058-27

Date Collected: 09/08/21 13:26

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 07:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 07:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 07:20	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:08	09/15/21 07:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 07:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:08	09/15/21 07:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/14/21 11:08	09/15/21 07:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/14/21 11:08	09/15/21 07:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 17:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 17:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 17:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-284

Lab Sample ID: 880-6058-27

Date Collected: 09/08/21 13:26

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130			09/14/21 11:24	09/14/21 17:17	1
o-Terphenyl (Surr)	124		70 - 130			09/14/21 11:24	09/14/21 17:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		4.95	mg/Kg			09/16/21 22:40	1

Client Sample ID: C-285

Lab Sample ID: 880-6058-28

Date Collected: 09/08/21 13:27

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 07:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 07:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 07:41	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/14/21 11:08	09/15/21 07:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 07:41	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/14/21 11:08	09/15/21 07:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/14/21 11:08	09/15/21 07:41	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/14/21 11:08	09/15/21 07:41	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/15/21 11:57	09/16/21 04:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/15/21 11:57	09/16/21 04:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/15/21 11:57	09/16/21 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	09/15/21 11:57	09/16/21 04:02	1
o-Terphenyl (Surr)	124		70 - 130	09/15/21 11:57	09/16/21 04:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		5.00	mg/Kg			09/16/21 22:46	1

Client Sample ID: C-286

Lab Sample ID: 880-6058-29

Date Collected: 09/08/21 13:28

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 08:02	1
Toluene	0.00290		0.00200	mg/Kg		09/14/21 11:08	09/15/21 08:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 08:02	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/14/21 11:08	09/15/21 08:02	1
o-Xylene	0.00405		0.00200	mg/Kg		09/14/21 11:08	09/15/21 08:02	1
Xylenes, Total	0.00405		0.00399	mg/Kg		09/14/21 11:08	09/15/21 08:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-286

Lab Sample ID: 880-6058-29

Date Collected: 09/08/21 13:28

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			09/14/21 11:08	09/15/21 08:02	1
1,4-Difluorobenzene (Surr)	119		70 - 130			09/14/21 11:08	09/15/21 08:02	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 11:24	09/14/21 17:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 11:24	09/14/21 17:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 11:24	09/14/21 17:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130			09/14/21 11:24	09/14/21 17:39	1
o-Terphenyl (Surr)	124		70 - 130			09/14/21 11:24	09/14/21 17:39	1
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		5.01	mg/Kg			09/16/21 22:51	1

Client Sample ID: C-287

Lab Sample ID: 880-6058-30

Date Collected: 09/08/21 13:29

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:08	09/15/21 08:23	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:08	09/15/21 08:23	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:08	09/15/21 08:23	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/14/21 11:08	09/15/21 08:23	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:08	09/15/21 08:23	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/14/21 11:08	09/15/21 08:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			09/14/21 11:08	09/15/21 08:23	1
1,4-Difluorobenzene (Surr)	89		70 - 130			09/14/21 11:08	09/15/21 08:23	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 18:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 18:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 18:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130			09/14/21 11:24	09/14/21 18:00	1
o-Terphenyl (Surr)	128		70 - 130			09/14/21 11:24	09/14/21 18:00	1
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		5.05	mq/Kq			09/16/21 22:57	

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-288

Lab Sample ID: 880-6058-31

Date Collected: 09/08/21 13:30

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:08	09/15/21 10:32	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:08	09/15/21 10:32	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:08	09/15/21 10:32	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/14/21 11:08	09/15/21 10:32	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:08	09/15/21 10:32	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/14/21 11:08	09/15/21 10:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	09/14/21 11:08	09/15/21 10:32	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/14/21 11:08	09/15/21 10:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 18:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 18:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130	09/14/21 11:24	09/14/21 18:43	1
o-Terphenyl (Surr)	121		70 - 130	09/14/21 11:24	09/14/21 18:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		4.98	mg/Kg			09/16/21 23:02	1

Client Sample ID: C-289

Lab Sample ID: 880-6058-32

Date Collected: 09/08/21 13:31

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:08	09/15/21 10:53	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:08	09/15/21 10:53	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:08	09/15/21 10:53	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/14/21 11:08	09/15/21 10:53	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:08	09/15/21 10:53	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/14/21 11:08	09/15/21 10:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/14/21 11:08	09/15/21 10:53	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/14/21 11:08	09/15/21 10:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 19:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 19:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-289

Lab Sample ID: 880-6058-32

Date Collected: 09/08/21 13:31

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130	09/14/21 11:24	09/14/21 19:05	1
o-Terphenyl (Surr)	121		70 - 130	09/14/21 11:24	09/14/21 19:05	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		5.00	mg/Kg			09/16/21 23:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: C-290

Lab Sample ID: 880-6058-33

Date Collected: 09/08/21 13:32

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 11:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 11:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 11:14	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/14/21 11:08	09/15/21 11:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 11:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/14/21 11:08	09/15/21 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	09/14/21 11:08	09/15/21 11:14	1
1,4-Difluorobenzene (Surr)	91		70 - 130	09/14/21 11:08	09/15/21 11:14	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 19:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 19:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 11:24	09/14/21 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130	09/14/21 11:24	09/14/21 19:26	1
o-Terphenyl (Surr)	125		70 - 130	09/14/21 11:24	09/14/21 19:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.1		4.99	mg/Kg			09/16/21 23:14	1

Client Sample ID: C-291

Lab Sample ID: 880-6058-34

Date Collected: 09/08/21 13:33

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 11:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 11:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 11:35	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 11:08	09/15/21 11:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 11:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 11:08	09/15/21 11:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-291

Lab Sample ID: 880-6058-34

Date Collected: 09/08/21 13:33

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/14/21 11:08	09/15/21 11:35	1
1,4-Difluorobenzene (Surr)	118		70 - 130	09/14/21 11:08	09/15/21 11:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 11:24	09/14/21 19:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 11:24	09/14/21 19:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 11:24	09/14/21 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	09/14/21 11:24	09/14/21 19:47	1
o-Terphenyl (Surr)	104		70 - 130	09/14/21 11:24	09/14/21 19:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		4.99	mg/Kg			09/17/21 15:48	1

Client Sample ID: C-292

Lab Sample ID: 880-6058-35

Date Collected: 09/08/21 13:34

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 11:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 11:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 11:55	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:08	09/15/21 11:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:08	09/15/21 11:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:08	09/15/21 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	09/14/21 11:08	09/15/21 11:55	1
1,4-Difluorobenzene (Surr)	122		70 - 130	09/14/21 11:08	09/15/21 11:55	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 20:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 20:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	09/14/21 11:24	09/14/21 20:09	1
o-Terphenyl (Surr)	94		70 - 130	09/14/21 11:24	09/14/21 20:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.6		5.02	mg/Kg			09/17/21 16:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-293

Lab Sample ID: 880-6058-36

Date Collected: 09/08/21 13:35

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:08	09/15/21 12:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:08	09/15/21 12:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:08	09/15/21 12:16	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/14/21 11:08	09/15/21 12:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:08	09/15/21 12:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/14/21 11:08	09/15/21 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/14/21 11:08	09/15/21 12:16	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/14/21 11:08	09/15/21 12:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/15/21 09:16	09/15/21 19:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/15/21 09:16	09/15/21 19:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/15/21 09:16	09/15/21 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130	09/15/21 09:16	09/15/21 19:58	1
o-Terphenyl (Surr)	130		70 - 130	09/15/21 09:16	09/15/21 19:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		4.98	mg/Kg			09/17/21 16:11	1

Client Sample ID: C-294

Lab Sample ID: 880-6058-37

Date Collected: 09/08/21 13:36

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 12:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 12:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 12:37	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/14/21 11:08	09/15/21 12:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 12:37	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/14/21 11:08	09/15/21 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/14/21 11:08	09/15/21 12:37	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/14/21 11:08	09/15/21 12:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/15/21 09:16	09/15/21 20:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/15/21 09:16	09/15/21 20:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/15/21 09:16	09/15/21 20:19	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-294

Lab Sample ID: 880-6058-37

Date Collected: 09/08/21 13:36

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	09/15/21 09:16	09/15/21 20:19	1
o-Terphenyl (Surr)	115		70 - 130	09/15/21 09:16	09/15/21 20:19	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		4.95	mg/Kg			09/17/21 16:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: C-295

Lab Sample ID: 880-6058-38

Date Collected: 09/08/21 13:37

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:08	09/15/21 12:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:08	09/15/21 12:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:08	09/15/21 12:57	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/14/21 11:08	09/15/21 12:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:08	09/15/21 12:57	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/14/21 11:08	09/15/21 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	09/14/21 11:08	09/15/21 12:57	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/14/21 11:08	09/15/21 12:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 21:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 21:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	45	S1-	70 - 130	09/14/21 11:24	09/14/21 21:14	1
o-Terphenyl (Surr)	36	S1-	70 - 130	09/14/21 11:24	09/14/21 21:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.9		5.01	mg/Kg			09/17/21 16:22	1

Client Sample ID: C-296

Lab Sample ID: 880-6058-39

Date Collected: 09/08/21 13:38

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 13:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 13:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 13:18	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/14/21 11:08	09/15/21 13:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 13:18	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/14/21 11:08	09/15/21 13:18	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-296

Lab Sample ID: 880-6058-39

Date Collected: 09/08/21 13:38

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/14/21 11:08	09/15/21 13:18	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/14/21 11:08	09/15/21 13:18	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130	09/15/21 09:16	09/15/21 20:40	1
o-Terphenyl (Surr)	120		70 - 130	09/15/21 09:16	09/15/21 20:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	
Chloride	99.8		4.97	mg/Kg		

Client Sample ID: C-297

Lab Sample ID: 880-6058-40

Date Collected: 09/08/21 13:39

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	
Benzene	0.00375		0.00201	mg/Kg		
Toluene	<0.00201	U	0.00201	mg/Kg		
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		
o-Xylene	<0.00201	U	0.00201	mg/Kg		
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/14/21 11:08	09/15/21 13:39	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/14/21 11:08	09/15/21 13:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130	09/14/21 11:24	09/14/21 21:58	1
o-Terphenyl (Surr)	82		70 - 130	09/14/21 11:24	09/14/21 21:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	
Chloride	62.0		4.95	mg/Kg		

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-298

Lab Sample ID: 880-6058-41

Date Collected: 09/09/21 15:01

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/14/21 17:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/14/21 17:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/14/21 17:30	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:16	09/14/21 17:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/14/21 17:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:16	09/14/21 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/14/21 11:16	09/14/21 17:30	1
1,4-Difluorobenzene (Surr)	117		70 - 130	09/14/21 11:16	09/14/21 17:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/14/21 23:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/14/21 23:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/14/21 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	09/14/21 14:17	09/14/21 23:47	1
o-Terphenyl (Surr)	122		70 - 130	09/14/21 14:17	09/14/21 23:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	385		4.99	mg/Kg			09/17/21 16:50	1

Client Sample ID: C-299

Lab Sample ID: 880-6058-42

Date Collected: 09/09/21 15:02

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 17:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 17:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 17:51	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/14/21 11:16	09/14/21 17:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 17:51	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/14/21 11:16	09/14/21 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/14/21 11:16	09/14/21 17:51	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/14/21 11:16	09/14/21 17:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 00:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 00:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 00:52	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-299

Lab Sample ID: 880-6058-42

Date Collected: 09/09/21 15:02

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	09/14/21 14:17	09/15/21 00:52	1
o-Terphenyl (Surr)	117		70 - 130	09/14/21 14:17	09/15/21 00:52	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	392		5.00	mg/Kg			09/17/21 16:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: C-300

Lab Sample ID: 880-6058-43

Date Collected: 09/09/21 15:03

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 18:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 18:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 18:11	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 11:16	09/14/21 18:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 18:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 11:16	09/14/21 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/14/21 11:16	09/14/21 18:11	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/14/21 11:16	09/14/21 18:11	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 01:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 01:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	09/14/21 14:17	09/15/21 01:14	1
o-Terphenyl (Surr)	115		70 - 130	09/14/21 14:17	09/15/21 01:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	373		5.00	mg/Kg			09/17/21 17:02	1

Client Sample ID: C-301

Lab Sample ID: 880-6058-44

Date Collected: 09/09/21 15:04

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 18:32	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 18:32	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 18:32	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/14/21 11:16	09/14/21 18:32	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 18:32	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/14/21 11:16	09/14/21 18:32	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-301

Lab Sample ID: 880-6058-44

Date Collected: 09/09/21 15:04

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			09/14/21 11:16	09/14/21 18:32	1
1,4-Difluorobenzene (Surr)	108		70 - 130			09/14/21 11:16	09/14/21 18:32	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 01:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 01:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130			09/14/21 14:17	09/15/21 01:36	1
o-Terphenyl (Surr)	134	S1+	70 - 130			09/14/21 14:17	09/15/21 01:36	1
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	677		4.95	mg/Kg			09/17/21 17:07	1

Client Sample ID: C-302

Lab Sample ID: 880-6058-45

Date Collected: 09/09/21 15:05

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 18:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 18:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 18:52	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/14/21 11:16	09/14/21 18:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 18:52	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/14/21 11:16	09/14/21 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			09/14/21 11:16	09/14/21 18:52	1
1,4-Difluorobenzene (Surr)	106		70 - 130			09/14/21 11:16	09/14/21 18:52	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/15/21 01:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/15/21 01:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/15/21 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130			09/14/21 14:17	09/15/21 01:57	1
o-Terphenyl (Surr)	119		70 - 130			09/14/21 14:17	09/15/21 01:57	1
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	382		5.04	mq/Kq			09/17/21 17:24	

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-303

Lab Sample ID: 880-6058-46

Date Collected: 09/09/21 15:06

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:16	09/14/21 19:12	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:16	09/14/21 19:12	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:16	09/14/21 19:12	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/14/21 11:16	09/14/21 19:12	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:16	09/14/21 19:12	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/14/21 11:16	09/14/21 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/14/21 11:16	09/14/21 19:12	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/14/21 11:16	09/14/21 19:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 02:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 02:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130	09/14/21 14:17	09/15/21 02:19	1
o-Terphenyl (Surr)	124		70 - 130	09/14/21 14:17	09/15/21 02:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	423		4.98	mg/Kg			09/17/21 17:30	1

Client Sample ID: C-304

Lab Sample ID: 880-6058-47

Date Collected: 09/09/21 15:07

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 19:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 19:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 19:33	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 11:16	09/14/21 19:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 19:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 11:16	09/14/21 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/14/21 11:16	09/14/21 19:33	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/14/21 11:16	09/14/21 19:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 02:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 02:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 02:41	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-304

Lab Sample ID: 880-6058-47

Date Collected: 09/09/21 15:07

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130	09/14/21 14:17	09/15/21 02:41	1
o-Terphenyl (Surr)	137	S1+	70 - 130	09/14/21 14:17	09/15/21 02:41	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	316		4.95	mg/Kg			09/17/21 17:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: C-305

Lab Sample ID: 880-6058-48

Date Collected: 09/09/21 15:08

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/14/21 19:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/14/21 19:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/14/21 19:53	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:16	09/14/21 19:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/14/21 19:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:16	09/14/21 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/14/21 11:16	09/14/21 19:53	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/14/21 11:16	09/14/21 19:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 03:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 03:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	09/14/21 14:17	09/15/21 03:03	1
o-Terphenyl (Surr)	125		70 - 130	09/14/21 14:17	09/15/21 03:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	425		4.99	mg/Kg			09/17/21 17:52	1

Client Sample ID: C-306

Lab Sample ID: 880-6058-49

Date Collected: 09/09/21 15:09

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:16	09/14/21 20:14	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:16	09/14/21 20:14	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:16	09/14/21 20:14	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/14/21 11:16	09/14/21 20:14	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:16	09/14/21 20:14	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/14/21 11:16	09/14/21 20:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-306

Lab Sample ID: 880-6058-49

Date Collected: 09/09/21 15:09

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	09/14/21 11:16	09/14/21 20:14	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/14/21 11:16	09/14/21 20:14	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	09/14/21 14:17	09/15/21 03:24	1
o-Terphenyl (Surr)	123		70 - 130	09/14/21 14:17	09/15/21 03:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	
Chloride	363		4.98	mg/Kg		

Client Sample ID: C-307

Lab Sample ID: 880-6058-50

Date Collected: 09/09/21 15:10

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	
Benzene	<0.00199	U	0.00199	mg/Kg		
Toluene	<0.00199	U	0.00199	mg/Kg		
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		
o-Xylene	<0.00199	U	0.00199	mg/Kg		
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/14/21 11:16	09/14/21 20:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/14/21 11:16	09/14/21 20:34	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	09/14/21 14:17	09/15/21 03:46	1
o-Terphenyl (Surr)	121		70 - 130	09/14/21 14:17	09/15/21 03:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	
Chloride	328		5.00	mg/Kg		

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-308

Lab Sample ID: 880-6058-51

Date Collected: 09/09/21 15:11

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 22:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 22:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 22:24	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 11:16	09/14/21 22:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 22:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 11:16	09/14/21 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/14/21 11:16	09/14/21 22:24	1
1,4-Difluorobenzene (Surr)	114		70 - 130	09/14/21 11:16	09/14/21 22:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 04:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 04:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	09/14/21 14:17	09/15/21 04:29	1
o-Terphenyl (Surr)	128		70 - 130	09/14/21 14:17	09/15/21 04:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		5.00	mg/Kg			09/17/21 18:09	1

Client Sample ID: C-309

Lab Sample ID: 880-6058-52

Date Collected: 09/09/21 15:12

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 22:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 22:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 22:45	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/14/21 11:16	09/14/21 22:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 22:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/14/21 11:16	09/14/21 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/14/21 11:16	09/14/21 22:45	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/14/21 11:16	09/14/21 22:45	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 04:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 04:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 04:50	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-309

Lab Sample ID: 880-6058-52

Date Collected: 09/09/21 15:12

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130	09/14/21 14:17	09/15/21 04:50	1
o-Terphenyl (Surr)	133	S1+	70 - 130	09/14/21 14:17	09/15/21 04:50	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	313		4.97	mg/Kg			09/17/21 18:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: C-310

Lab Sample ID: 880-6058-53

Date Collected: 09/09/21 15:13

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 23:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 23:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 23:05	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/14/21 11:16	09/14/21 23:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 23:05	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/14/21 11:16	09/14/21 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/14/21 11:16	09/14/21 23:05	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/14/21 11:16	09/14/21 23:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 05:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 05:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 14:17	09/15/21 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	09/14/21 14:17	09/15/21 05:11	1
o-Terphenyl (Surr)	127		70 - 130	09/14/21 14:17	09/15/21 05:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2130		24.8	mg/Kg			09/17/21 18:20	5

Client Sample ID: C-311

Lab Sample ID: 880-6058-54

Date Collected: 09/09/21 15:14

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 23:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 23:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 23:26	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/14/21 11:16	09/14/21 23:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 23:26	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/14/21 11:16	09/14/21 23:26	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-311

Lab Sample ID: 880-6058-54

Date Collected: 09/09/21 15:14

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			09/14/21 11:16	09/14/21 23:26	1
1,4-Difluorobenzene (Surr)	109		70 - 130			09/14/21 11:16	09/14/21 23:26	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/15/21 05:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/15/21 05:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/15/21 05:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			09/14/21 14:17	09/15/21 05:31	1
o-Terphenyl (Surr)	129		70 - 130			09/14/21 14:17	09/15/21 05:31	1
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		24.8	mg/Kg			09/18/21 04:07	5

Client Sample ID: C-312

Lab Sample ID: 880-6058-55

Date Collected: 09/09/21 15:15

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 23:46	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 23:46	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 23:46	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/14/21 11:16	09/14/21 23:46	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/14/21 23:46	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/14/21 11:16	09/14/21 23:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			09/14/21 11:16	09/14/21 23:46	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/14/21 11:16	09/14/21 23:46	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 05:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 05:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 05:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			09/14/21 14:17	09/15/21 05:52	1
o-Terphenyl (Surr)	130		70 - 130			09/14/21 14:17	09/15/21 05:52	1
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	635		4.97	mg/Kg			09/18/21 04:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-313

Lab Sample ID: 880-6058-56

Date Collected: 09/09/21 15:07

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00233		0.00202	mg/Kg		09/14/21 11:16	09/15/21 00:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/15/21 00:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/15/21 00:06	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/14/21 11:16	09/15/21 00:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/14/21 11:16	09/15/21 00:06	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/14/21 11:16	09/15/21 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/14/21 11:16	09/15/21 00:06	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/14/21 11:16	09/15/21 00:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 06:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 06:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130	09/14/21 14:17	09/15/21 06:13	1
o-Terphenyl (Surr)	138	S1+	70 - 130	09/14/21 14:17	09/15/21 06:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	894		5.00	mg/Kg			09/18/21 04:29	1

Client Sample ID: C-314

Lab Sample ID: 880-6058-57

Date Collected: 09/09/21 15:17

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/15/21 00:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/15/21 00:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/15/21 00:27	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/14/21 11:16	09/15/21 00:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/15/21 00:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/14/21 11:16	09/15/21 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/14/21 11:16	09/15/21 00:27	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/14/21 11:16	09/15/21 00:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/15/21 06:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/15/21 06:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/15/21 06:34	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-314

Lab Sample ID: 880-6058-57

Date Collected: 09/09/21 15:17

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	09/14/21 14:17	09/15/21 06:34	1
o-Terphenyl (Surr)	124		70 - 130	09/14/21 14:17	09/15/21 06:34	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		4.98	mg/Kg			09/18/21 04:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: C-315

Lab Sample ID: 880-6058-58

Date Collected: 09/09/21 15:18

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/15/21 00:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/15/21 00:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/15/21 00:47	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:16	09/15/21 00:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/15/21 00:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:16	09/15/21 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/14/21 11:16	09/15/21 00:47	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/14/21 11:16	09/15/21 00:47	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 06:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 06:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	127		70 - 130	09/14/21 14:17	09/15/21 06:55	1
o-Terphenyl (Surr)	144	S1+	70 - 130	09/14/21 14:17	09/15/21 06:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		5.00	mg/Kg			09/18/21 04:40	1

Client Sample ID: C-316

Lab Sample ID: 880-6058-59

Date Collected: 09/09/21 15:19

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:16	09/15/21 01:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:16	09/15/21 01:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:16	09/15/21 01:08	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/14/21 11:16	09/15/21 01:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/14/21 11:16	09/15/21 01:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/14/21 11:16	09/15/21 01:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-316

Lab Sample ID: 880-6058-59

Date Collected: 09/09/21 15:19

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/14/21 11:16	09/15/21 01:08	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/14/21 11:16	09/15/21 01:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/15/21 07:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/15/21 07:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 14:17	09/15/21 07:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130	09/14/21 14:17	09/15/21 07:16	1
o-Terphenyl (Surr)	131	S1+	70 - 130	09/14/21 14:17	09/15/21 07:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1270		5.04	mg/Kg			09/18/21 04:57	1

Client Sample ID: C-317

Lab Sample ID: 880-6058-60

Date Collected: 09/09/21 15:20

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/15/21 01:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/15/21 01:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/15/21 01:28	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 11:16	09/15/21 01:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 11:16	09/15/21 01:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 11:16	09/15/21 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/14/21 11:16	09/15/21 01:28	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/14/21 11:16	09/15/21 01:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 07:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 07:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/15/21 07:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130	09/14/21 14:17	09/15/21 07:38	1
o-Terphenyl (Surr)	124		70 - 130	09/14/21 14:17	09/15/21 07:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1290		5.01	mg/Kg			09/18/21 05:03	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-318

Lab Sample ID: 880-6058-61

Date Collected: 09/09/21 15:21

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 17:00	09/15/21 05:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 17:00	09/15/21 05:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 17:00	09/15/21 05:25	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 17:00	09/15/21 05:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 17:00	09/15/21 05:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 17:00	09/15/21 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	09/14/21 17:00	09/15/21 05:25	1
1,4-Difluorobenzene (Surr)	71		70 - 130	09/14/21 17:00	09/15/21 05:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 14:00	09/14/21 18:27	1
Diesel Range Organics (Over C10-C28)	50.0		49.9	mg/Kg		09/14/21 14:00	09/14/21 18:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 14:00	09/14/21 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130	09/14/21 14:00	09/14/21 18:27	1
o-Terphenyl (Surr)	130		70 - 130	09/14/21 14:00	09/14/21 18:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	467		4.98	mg/Kg			09/18/21 05:08	1

Client Sample ID: C-319

Lab Sample ID: 880-6058-62

Date Collected: 09/09/21 15:22

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 17:00	09/15/21 05:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 17:00	09/15/21 05:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 17:00	09/15/21 05:45	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/14/21 17:00	09/15/21 05:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 17:00	09/15/21 05:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/14/21 17:00	09/15/21 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/14/21 17:00	09/15/21 05:45	1
1,4-Difluorobenzene (Surr)	80		70 - 130	09/14/21 17:00	09/15/21 05:45	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/14/21 14:00	09/14/21 18:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/14/21 14:00	09/14/21 18:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/14/21 14:00	09/14/21 18:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-319

Lab Sample ID: 880-6058-62

Date Collected: 09/09/21 15:22

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130	09/14/21 14:00	09/14/21 18:48	1
o-Terphenyl (Surr)	124		70 - 130	09/14/21 14:00	09/14/21 18:48	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	207		4.95	mg/Kg			09/18/21 05:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: C-320

Lab Sample ID: 880-6058-63

Date Collected: 09/09/21 15:23

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 17:00	09/15/21 06:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 17:00	09/15/21 06:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 17:00	09/15/21 06:06	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 17:00	09/15/21 06:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 17:00	09/15/21 06:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 17:00	09/15/21 06:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	09/14/21 17:00	09/15/21 06:06	1
1,4-Difluorobenzene (Surr)	72		70 - 130	09/14/21 17:00	09/15/21 06:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/14/21 14:40	09/14/21 19:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/14/21 14:40	09/14/21 19:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/14/21 14:40	09/14/21 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130	09/14/21 14:40	09/14/21 19:09	1
o-Terphenyl (Surr)	126		70 - 130	09/14/21 14:40	09/14/21 19:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		5.02	mg/Kg			09/18/21 05:19	1

Client Sample ID: C-321

Lab Sample ID: 880-6058-64

Date Collected: 09/09/21 15:24

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 17:00	09/15/21 06:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 17:00	09/15/21 06:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 17:00	09/15/21 06:26	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 17:00	09/15/21 06:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 17:00	09/15/21 06:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 17:00	09/15/21 06:26	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-321

Lab Sample ID: 880-6058-64

Date Collected: 09/09/21 15:24

Matrix: Solid

Date Received: 09/14/21 10:18

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			09/14/21 17:00	09/15/21 06:26	1
1,4-Difluorobenzene (Surr)	76		70 - 130			09/14/21 17:00	09/15/21 06:26	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 14:00	09/14/21 19:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 14:00	09/14/21 19:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 14:00	09/14/21 19:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	127		70 - 130			09/14/21 14:00	09/14/21 19:30	1
o-Terphenyl (Surr)	132	S1+	70 - 130			09/14/21 14:00	09/14/21 19:30	1
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		5.00	mg/Kg			09/18/21 05:25	1

Client Sample ID: C-322

Lab Sample ID: 880-6058-65

Date Collected: 09/09/21 15:24

Matrix: Solid

Date Received: 09/14/21 10:18

Method: 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/14/21 17:00	09/15/21 06:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/14/21 17:00	09/15/21 06:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/14/21 17:00	09/15/21 06:47	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/14/21 17:00	09/15/21 06:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/14/21 17:00	09/15/21 06:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/14/21 17:00	09/15/21 06:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			09/14/21 17:00	09/15/21 06:47	1
1,4-Difluorobenzene (Surr)	78		70 - 130			09/14/21 17:00	09/15/21 06:47	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 14:00	09/14/21 19:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 14:00	09/14/21 19:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 14:00	09/14/21 19:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			09/14/21 14:00	09/14/21 19:52	1
o-Terphenyl (Surr)	122		70 - 130			09/14/21 14:00	09/14/21 19:52	1
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		4.98	mq/Kq			09/18/21 05:42	

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-6057-A-1-A MS	Matrix Spike	119	87
880-6057-A-1-B MSD	Matrix Spike Duplicate	113	87
880-6058-1	C-258	81	78
880-6058-1 MS	C-258	95	102
880-6058-1 MSD	C-258	96	95
880-6058-2	C-259	94	112
880-6058-3	C-260	85	87
880-6058-4	C-261	85	72
880-6058-5	C-262	108	117
880-6058-6	C-263	81	101
880-6058-7	C-264	97	102
880-6058-8	C-265	96	111
880-6058-9	C-266	102	119
880-6058-10	C-267	94	94
880-6058-11	C-268	93	118
880-6058-12	C-269	85	93
880-6058-13	C-270	90	104
880-6058-14	C-271	98	96
880-6058-15	C-272	106	86
880-6058-16	C-273	96	85
880-6058-17	C-274	108	72
880-6058-18	C-275	97	102
880-6058-19	C-276	92	78
880-6058-20	C-277	93	98
880-6058-21	C-278	99	81
880-6058-21 MS	C-278	136 S1+	112
880-6058-21 MSD	C-278	100	94
880-6058-22	C-279	115	83
880-6058-23	C-280	116	97
880-6058-24	C-281	115	85
880-6058-25	C-282	112	84
880-6058-26	C-283	106	102
880-6058-27	C-284	106	102
880-6058-28	C-285	103	97
880-6058-29	C-286	116	119
880-6058-30	C-287	105	89
880-6058-31	C-288	92	92
880-6058-32	C-289	99	85
880-6058-33	C-290	92	91
880-6058-34	C-291	113	118
880-6058-35	C-292	130	122
880-6058-36	C-293	113	98
880-6058-37	C-294	103	95
880-6058-38	C-295	95	108
880-6058-39	C-296	101	92
880-6058-40	C-297	99	109
880-6058-41	C-298	101	117
880-6058-41 MS	C-298	97	98
880-6058-41 MSD	C-298	102	99

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6058-1

Project/Site: PALMIO AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-6058-42	C-299	107	109
880-6058-43	C-300	102	100
880-6058-44	C-301	112	108
880-6058-45	C-302	109	106
880-6058-46	C-303	114	105
880-6058-47	C-304	106	106
880-6058-48	C-305	115	101
880-6058-49	C-306	120	104
880-6058-50	C-307	115	102
880-6058-51	C-308	102	114
880-6058-52	C-309	112	105
880-6058-53	C-310	116	99
880-6058-54	C-311	121	109
880-6058-55	C-312	118	102
880-6058-56	C-313	103	109
880-6058-57	C-314	113	108
880-6058-58	C-315	113	101
880-6058-59	C-316	117	104
880-6058-60	C-317	110	102
880-6058-61	C-318	120	71
880-6058-62	C-319	128	80
880-6058-63	C-320	127	72
880-6058-64	C-321	133 S1+	76
880-6058-65	C-322	127	78
LCS 880-7874/1-A	Lab Control Sample	109	88
LCS 880-7875/1-A	Lab Control Sample	98	93
LCS 880-7876/1-A	Lab Control Sample	99	97
LCS 880-7878/1-A	Lab Control Sample	98	97
LCSD 880-7874/2-A	Lab Control Sample Dup	107	89
LCSD 880-7875/2-A	Lab Control Sample Dup	93	95
LCSD 880-7876/2-A	Lab Control Sample Dup	102	96
LCSD 880-7878/2-A	Lab Control Sample Dup	100	95
MB 880-7758/5-A	Method Blank	113	77
MB 880-7874/5-A	Method Blank	108	77
MB 880-7875/5-A	Method Blank	106	87
MB 880-7876/5-A	Method Blank	134 S1+	87
MB 880-7878/5-A	Method Blank	129	100
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6052-A-1-B MS	Matrix Spike	105	99
880-6052-A-1-C MSD	Matrix Spike Duplicate	105	100
880-6058-1	C-258	101	110

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6058-1

Project/Site: PALMIO AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-6058-1 MS	C-258	105	111
880-6058-1 MSD	C-258	108	113
880-6058-2	C-259	101	111
880-6058-3	C-260	98	105
880-6058-4	C-261	98	105
880-6058-5	C-262	99	106
880-6058-6	C-263	99	107
880-6058-7	C-264	101	112
880-6058-8	C-265	108	124
880-6058-9	C-266	112	121
880-6058-10	C-267	100	108
880-6058-11	C-268	107	119
880-6058-12	C-269	105	117
880-6058-13	C-270	104	117
880-6058-14	C-271	98	109
880-6058-15	C-272	99	109
880-6058-16	C-273	98	107
880-6058-17	C-274	98	107
880-6058-18	C-275	101	113
880-6058-19	C-276	96	107
880-6058-20	C-277	97	108
880-6058-21	C-278	123	120
880-6058-21 MS	C-278	119	105
880-6058-21 MSD	C-278	112	102
880-6058-22	C-279	125	127
880-6058-23	C-280	120	123
880-6058-24	C-281	116	118
880-6058-25	C-282	111	117
880-6058-26	C-283	136 S1+	140 S1+
880-6058-27	C-284	120	124
880-6058-28	C-285	111	124
880-6058-29	C-286	118	124
880-6058-30	C-287	123	128
880-6058-31	C-288	116	121
880-6058-32	C-289	116	121
880-6058-33	C-290	122	125
880-6058-34	C-291	102	104
880-6058-35	C-292	92	94
880-6058-36	C-293	120	130
880-6058-37	C-294	110	115
880-6058-38	C-295	45 S1-	36 S1-
880-6058-39	C-296	118	120
880-6058-40	C-297	80	82
880-6058-41	C-298	108	122
880-6058-41 MS	C-298	106	113
880-6058-41 MSD	C-298	106	113
880-6058-42	C-299	103	117
880-6058-43	C-300	102	115
880-6058-44	C-301	118	134 S1+
880-6058-45	C-302	106	119

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6058-1

Project/Site: PALMIO AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6058-46	C-303	109	124
880-6058-47	C-304	120	137 S1+
880-6058-48	C-305	111	125
880-6058-49	C-306	108	123
880-6058-50	C-307	107	121
880-6058-51	C-308	112	128
880-6058-52	C-309	117	133 S1+
880-6058-53	C-310	111	127
880-6058-54	C-311	112	129
880-6058-55	C-312	114	130
880-6058-56	C-313	120	138 S1+
880-6058-57	C-314	111	124
880-6058-58	C-315	127	144 S1+
880-6058-59	C-316	116	131 S1+
880-6058-60	C-317	109	124
880-6058-61	C-318	124	130
880-6058-62	C-319	117	124
880-6058-63	C-320	120	126
880-6058-64	C-321	127	132 S1+
880-6058-65	C-322	116	122
880-6120-A-21-B MS	Matrix Spike	87	78
880-6120-A-21-C MSD	Matrix Spike Duplicate	94	86
880-6143-A-21-D MS	Matrix Spike	108	116
880-6143-A-21-E MSD	Matrix Spike Duplicate	108	115
LCS 880-7855/2-A	Lab Control Sample	103	99
LCS 880-7880/2-A	Lab Control Sample	104	112
LCS 880-7882/2-A	Lab Control Sample	115	110
LCS 880-7886/2-A	Lab Control Sample	102	111
LCS 880-7895/2-A	Lab Control Sample	110	110
LCS 880-7933/2-A	Lab Control Sample	114	125
LCSD 880-7855/3-A	Lab Control Sample Dup	103	100
LCSD 880-7880/3-A	Lab Control Sample Dup	102	110
LCSD 880-7882/3-A	Lab Control Sample Dup	108	104
LCSD 880-7886/3-A	Lab Control Sample Dup	104	111
LCSD 880-7895/3-A	Lab Control Sample Dup	110	103
LCSD 880-7933/3-A	Lab Control Sample Dup	117	128
MB 880-7855/1-A	Method Blank	110	119
MB 880-7880/1-A	Method Blank	99	116
MB 880-7882/1-A	Method Blank	127	137 S1+
MB 880-7886/1-A	Method Blank	98	115
MB 880-7895/1-A	Method Blank	121	127
MB 880-7933/1-A	Method Blank	114	137 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7758/5-A

Matrix: Solid

Analysis Batch: 7857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7758

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 09:00	09/14/21 12:20	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 09:00	09/14/21 12:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 09:00	09/14/21 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/14/21 09:00	09/14/21 12:20	1
1,4-Difluorobenzene (Surr)	77		70 - 130	09/14/21 09:00	09/14/21 12:20	1

Lab Sample ID: MB 880-7874/5-A

Matrix: Solid

Analysis Batch: 7857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7874

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 12:00	09/14/21 23:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 12:00	09/14/21 23:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 12:00	09/14/21 23:14	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 12:00	09/14/21 23:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 12:00	09/14/21 23:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 12:00	09/14/21 23:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/14/21 12:00	09/14/21 23:14	1
1,4-Difluorobenzene (Surr)	77		70 - 130	09/14/21 12:00	09/14/21 23:14	1

Lab Sample ID: LCS 880-7874/1-A

Matrix: Solid

Analysis Batch: 7857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09076		mg/Kg		91	70 - 130
Toluene	0.100	0.08237		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08102		mg/Kg		81	70 - 130
m,p-Xylenes	0.200	0.1707		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08631		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: LCSD 880-7874/2-A

Matrix: Solid

Analysis Batch: 7857

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1012		mg/Kg		101	70 - 130	11	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-7874/2-A

Matrix: Solid

Analysis Batch: 7857

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.09352		mg/Kg		94	70 - 130	13	35
Ethylbenzene	0.100	0.09545		mg/Kg		95	70 - 130	16	35
m,p-Xylenes	0.200	0.1928		mg/Kg		96	70 - 130	12	35
o-Xylene	0.100	0.09783		mg/Kg		98	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-6057-A-1-A MS

Matrix: Solid

Analysis Batch: 7857

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7874

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0998	0.08191		mg/Kg		82	70 - 130
Toluene	<0.00200	U	0.0998	0.07653		mg/Kg		77	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.07815		mg/Kg		78	70 - 130
m,p-Xylenes	<0.00400	U	0.200	0.1600		mg/Kg		80	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08061		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-6057-A-1-B MSD

Matrix: Solid

Analysis Batch: 7857

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7874

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.07848		mg/Kg		79	70 - 130	4	35
Toluene	<0.00200	U	0.0996	0.07395		mg/Kg		74	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.07503		mg/Kg		75	70 - 130	4	35
m,p-Xylenes	<0.00400	U	0.199	0.1542		mg/Kg		77	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.07891		mg/Kg		79	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-7875/5-A

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7875

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 17:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 17:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 17:45	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 11:05	09/14/21 17:45	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-7875/5-A

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7875

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:05	09/14/21 17:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 11:05	09/14/21 17:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			09/14/21 11:05	09/14/21 17:45	1
1,4-Difluorobenzene (Surr)	87		70 - 130			09/14/21 11:05	09/14/21 17:45	1

Lab Sample ID: LCS 880-7875/1-A

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07828		mg/Kg		78	70 - 130
Toluene	0.100	0.09873		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09961		mg/Kg		100	70 - 130
m,p-Xylenes	0.200	0.1691		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08021		mg/Kg		80	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	98		70 - 130				
1,4-Difluorobenzene (Surr)	93		70 - 130				

Lab Sample ID: LCSD 880-7875/2-A

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7875

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09273		mg/Kg		93	70 - 130	17	35
Toluene	0.100	0.08618		mg/Kg		86	70 - 130	14	35
Ethylbenzene	0.100	0.08491		mg/Kg		85	70 - 130	16	35
m,p-Xylenes	0.200	0.1641		mg/Kg		82	70 - 130	3	35
o-Xylene	0.100	0.07625		mg/Kg		76	70 - 130	5	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		70 - 130						
1,4-Difluorobenzene (Surr)	95		70 - 130						

Lab Sample ID: 880-6058-1 MS

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: C-258

Prep Type: Total/NA

Prep Batch: 7875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.100	0.06394	F1	mg/Kg		63	70 - 130
Toluene	<0.00198	U	0.100	0.07446		mg/Kg		74	70 - 130
Ethylbenzene	<0.00198	U F1	0.100	0.07045		mg/Kg		70	70 - 130
m,p-Xylenes	<0.00397	U F1	0.200	0.1218	F1	mg/Kg		61	70 - 130
o-Xylene	<0.00198	U F1	0.100	0.05673	F1	mg/Kg		57	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6058-1 MS

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: C-258

Prep Type: Total/NA

Prep Batch: 7875

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-6058-1 MSD

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: C-258

Prep Type: Total/NA

Prep Batch: 7875

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0994	0.05074	F1	mg/Kg		50	70 - 130	23	35
Toluene	<0.00198	U	0.0994	0.07348		mg/Kg		73	70 - 130	1	35
Ethylbenzene	<0.00198	U F1	0.0994	0.06179	F1	mg/Kg		62	70 - 130	13	35
m,p-Xylenes	<0.00397	U F1	0.199	0.1170	F1	mg/Kg		59	70 - 130	4	35
o-Xylene	<0.00198	U F1	0.0994	0.05811	F1	mg/Kg		58	70 - 130	2	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-7876/5-A

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7876

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 04:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 04:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 04:55	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 11:08	09/15/21 04:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:08	09/15/21 04:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 11:08	09/15/21 04:55	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	09/14/21 11:08	09/15/21 04:55	1		
1,4-Difluorobenzene (Surr)	87		70 - 130	09/14/21 11:08	09/15/21 04:55	1		

Lab Sample ID: LCS 880-7876/1-A

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7876

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08376		mg/Kg		84	70 - 130
Toluene	0.100	0.09026		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.09258		mg/Kg		93	70 - 130
m,p-Xylenes	0.200	0.1641		mg/Kg		82	70 - 130
o-Xylene	0.100	0.07801		mg/Kg		78	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-7876/1-A

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7876

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-7876/2-A

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7876

	LCS	LCS							%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.09690		mg/Kg		97	70 - 130	15	35		
Toluene	0.100	0.09635		mg/Kg		96	70 - 130	7	35		
Ethylbenzene	0.100	0.09348		mg/Kg		93	70 - 130	1	35		
m,p-Xylenes	0.200	0.1683		mg/Kg		84	70 - 130	3	35		
o-Xylene	0.100	0.08045		mg/Kg		80	70 - 130	3	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-6058-21 MS

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: C-278

Prep Type: Total/NA

Prep Batch: 7876

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.0996	0.02625	F1	mg/Kg		26	70 - 130		
Toluene	<0.00199	U F1	0.0996	0.05821	F1	mg/Kg		58	70 - 130		
Ethylbenzene	<0.00199	U F1	0.0996	0.05524	F1	mg/Kg		55	70 - 130		
m,p-Xylenes	<0.00398	U F1	0.199	0.1087	F1	mg/Kg		55	70 - 130		
o-Xylene	<0.00199	U F1	0.0996	0.05592	F1	mg/Kg		55	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-6058-21 MSD

Matrix: Solid

Analysis Batch: 7877

Client Sample ID: C-278

Prep Type: Total/NA

Prep Batch: 7876

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.0998	0.05008	F2 F1	mg/Kg		50	70 - 130	62	35
Toluene	<0.00199	U F1	0.0998	0.06309	F1	mg/Kg		63	70 - 130	8	35
Ethylbenzene	<0.00199	U F1	0.0998	0.05831	F1	mg/Kg		57	70 - 130	5	35
m,p-Xylenes	<0.00398	U F1	0.200	0.1061	F1	mg/Kg		53	70 - 130	2	35
o-Xylene	<0.00199	U F1	0.0998	0.05310	F1	mg/Kg		52	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-7878/5-A

Matrix: Solid

Analysis Batch: 7881

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7878

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 17:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 17:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 17:01	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/14/21 11:16	09/14/21 17:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 17:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 11:16	09/14/21 17:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	09/14/21 11:16	09/14/21 17:01	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/14/21 11:16	09/14/21 17:01	1

Lab Sample ID: LCS 880-7878/1-A

Matrix: Solid

Analysis Batch: 7881

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09231		mg/Kg		92	70 - 130
Toluene	0.100	0.1009		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130
m,p-Xylenes	0.200	0.1885		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09363		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-7878/2-A

Matrix: Solid

Analysis Batch: 7881

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7878

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09304		mg/Kg		93	70 - 130	1	35
Toluene	0.100	0.1016		mg/Kg		102	70 - 130	1	35
Ethylbenzene	0.100	0.1042		mg/Kg		104	70 - 130	1	35
m,p-Xylenes	0.200	0.1848		mg/Kg		92	70 - 130	2	35
o-Xylene	0.100	0.09290		mg/Kg		93	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-6058-41 MS

Matrix: Solid

Analysis Batch: 7881

Client Sample ID: C-298

Prep Type: Total/NA

Prep Batch: 7878

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.100	0.08532		mg/Kg		84	70 - 130
Toluene	<0.00199	U	0.100	0.08826		mg/Kg		88	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6058-41 MS

Matrix: Solid

Analysis Batch: 7881

Client Sample ID: C-298

Prep Type: Total/NA

Prep Batch: 7878

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U	0.100	0.08841		mg/Kg		88	70 - 130
m,p-Xylenes	<0.00398	U	0.201	0.1602		mg/Kg		80	70 - 130
o-Xylene	<0.00199	U	0.100	0.08028		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-6058-41 MSD

Matrix: Solid

Analysis Batch: 7881

Client Sample ID: C-298

Prep Type: Total/NA

Prep Batch: 7878

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08247		mg/Kg		81	70 - 130	3	35
Toluene	<0.00199	U	0.100	0.08044		mg/Kg		80	70 - 130	9	35
Ethylbenzene	<0.00199	U	0.100	0.08300		mg/Kg		83	70 - 130	6	35
m,p-Xylenes	<0.00398	U	0.200	0.1500		mg/Kg		75	70 - 130	7	35
o-Xylene	<0.00199	U	0.100	0.07562		mg/Kg		75	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-7855/1-A

Matrix: Solid

Analysis Batch: 7858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7855

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 08:40	09/14/21 10:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 08:40	09/14/21 10:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 08:40	09/14/21 10:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	09/14/21 08:40	09/14/21 10:34	1
o-Terphenyl (Surr)	119		70 - 130	09/14/21 08:40	09/14/21 10:34	1

Lab Sample ID: LCS 880-7855/2-A

Matrix: Solid

Analysis Batch: 7858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	876.5		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	856.9		mg/Kg		86	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-7855/2-A
Matrix: Solid
Analysis Batch: 7858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7855

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-7855/3-A
Matrix: Solid
Analysis Batch: 7858

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7855

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	810.7		mg/Kg		81	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	760.2		mg/Kg		76	70 - 130	12	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	100		70 - 130

Lab Sample ID: 880-6052-A-1-B MS
Matrix: Solid
Analysis Batch: 7858

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	927.2		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	878.8		mg/Kg		84	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: 880-6052-A-1-C MSD
Matrix: Solid
Analysis Batch: 7858

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7855

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	914.4		mg/Kg		87	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	886.8		mg/Kg		84	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	100		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-7880/1-A

Matrix: Solid

Analysis Batch: 7863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7880

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 12:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 12:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 11:23	09/14/21 12:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			09/14/21 11:23	09/14/21 12:47	1
o-Terphenyl (Surr)	116		70 - 130			09/14/21 11:23	09/14/21 12:47	1

Lab Sample ID: LCS 880-7880/2-A

Matrix: Solid

Analysis Batch: 7863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	789.9		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	1000	849.8		mg/Kg		85	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	104		70 - 130				
o-Terphenyl (Surr)	112		70 - 130				

Lab Sample ID: LCSD 880-7880/3-A

Matrix: Solid

Analysis Batch: 7863

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7880

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	858.0		mg/Kg		86	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	852.2		mg/Kg		85	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	102		70 - 130						
o-Terphenyl (Surr)	110		70 - 130						

Lab Sample ID: 880-6058-1 MS

Matrix: Solid

Analysis Batch: 7863

Client Sample ID: C-258

Prep Type: Total/NA

Prep Batch: 7880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	707.0		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	789.2		mg/Kg		79	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6058-1 MS

Matrix: Solid

Analysis Batch: 7863

Client Sample ID: C-258

Prep Type: Total/NA

Prep Batch: 7880

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Lab Sample ID: 880-6058-1 MSD

Matrix: Solid

Analysis Batch: 7863

Client Sample ID: C-258

Prep Type: Total/NA

Prep Batch: 7880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	729.3		mg/Kg		73	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	808.9		mg/Kg		81	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	113		70 - 130

Lab Sample ID: MB 880-7882/1-A

Matrix: Solid

Analysis Batch: 7865

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7882

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 12:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 12:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 11:24	09/14/21 12:47	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	127		70 - 130	09/14/21 11:24	09/14/21 12:47	1
o-Terphenyl (Surr)	137	S1+	70 - 130	09/14/21 11:24	09/14/21 12:47	1

Lab Sample ID: LCS 880-7882/2-A

Matrix: Solid

Analysis Batch: 7865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	857.4		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	990.1		mg/Kg		99	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	115		70 - 130
o-Terphenyl (Surr)	110		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-7882/3-A

Matrix: Solid

Analysis Batch: 7865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7882

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	817.9		mg/Kg		82	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	975.3		mg/Kg		98	70 - 130	2	20
	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	108		70 - 130						
o-Terphenyl (Surr)	104		70 - 130						

Lab Sample ID: 880-6058-21 MS

Matrix: Solid

Analysis Batch: 7865

Client Sample ID: C-278

Prep Type: Total/NA

Prep Batch: 7882

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	924.3		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1099		mg/Kg		107	70 - 130		
	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	119		70 - 130								
o-Terphenyl (Surr)	105		70 - 130								

Lab Sample ID: 880-6058-21 MSD

Matrix: Solid

Analysis Batch: 7865

Client Sample ID: C-278

Prep Type: Total/NA

Prep Batch: 7882

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	802.2		mg/Kg		80	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1048		mg/Kg		102	70 - 130	5	20
	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	112		70 - 130								
o-Terphenyl (Surr)	102		70 - 130								

Lab Sample ID: MB 880-7886/1-A

Matrix: Solid

Analysis Batch: 7863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7886

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/14/21 22:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/14/21 22:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/14/21 14:17	09/14/21 22:41	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-7886/1-A

Matrix: Solid

Analysis Batch: 7863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7886

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane (Surr)	98		70 - 130	09/14/21 14:17	09/14/21 22:41	1				
o-Terphenyl (Surr)	115		70 - 130	09/14/21 14:17	09/14/21 22:41	1				

Lab Sample ID: LCS 880-7886/2-A

Matrix: Solid

Analysis Batch: 7863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7886

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	814.2		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	866.3		mg/Kg		87	70 - 130		

	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	102		70 - 130								
o-Terphenyl (Surr)	111		70 - 130								

Lab Sample ID: LCSD 880-7886/3-A

Matrix: Solid

Analysis Batch: 7863

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7886

			Spike	LCSD	LCSD				%Rec.		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	839.0		mg/Kg		84	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)			1000	887.1		mg/Kg		89	70 - 130	2	20	

	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	104		70 - 130									
o-Terphenyl (Surr)	111		70 - 130									

Lab Sample ID: 880-6058-41 MS

Matrix: Solid

Analysis Batch: 7863

Client Sample ID: C-298

Prep Type: Total/NA

Prep Batch: 7886

	Sample	Sample	Spike	MS	MS				%Rec.			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	767.6		mg/Kg		77	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.8	U	997	824.4		mg/Kg		83	70 - 130			

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	106		70 - 130									
o-Terphenyl (Surr)	113		70 - 130									

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6058-41 MSD

Matrix: Solid

Analysis Batch: 7863

Client Sample ID: C-298

Prep Type: Total/NA

Prep Batch: 7886

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	847.6		mg/Kg		85	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	825.0		mg/Kg		83	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	106		70 - 130								
o-Terphenyl (Surr)	113		70 - 130								

Lab Sample ID: MB 880-7895/1-A

Matrix: Solid

Analysis Batch: 7910

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7895

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/15/21 09:16	09/15/21 11:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/15/21 09:16	09/15/21 11:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/15/21 09:16	09/15/21 11:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130			09/15/21 09:16	09/15/21 11:24	1
o-Terphenyl (Surr)	127		70 - 130			09/15/21 09:16	09/15/21 11:24	1

Lab Sample ID: LCS 880-7895/2-A

Matrix: Solid

Analysis Batch: 7910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	964.4		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1044		mg/Kg		104	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	110		70 - 130						
o-Terphenyl (Surr)	110		70 - 130						

Lab Sample ID: LCSD 880-7895/3-A

Matrix: Solid

Analysis Batch: 7910

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7895

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	913.8		mg/Kg		91	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	969.6		mg/Kg		97	70 - 130	7	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-7895/3-A

Matrix: Solid

Analysis Batch: 7910

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7895

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	103		70 - 130

Lab Sample ID: 880-6120-A-21-B MS

Matrix: Solid

Analysis Batch: 7910

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7895

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	997	707.7	F1	mg/Kg		69	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	997	941.1		mg/Kg		92	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	87		70 - 130							
o-Terphenyl (Surr)	78		70 - 130							

Lab Sample ID: 880-6120-A-21-C MSD

Matrix: Solid

Analysis Batch: 7910

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7895

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	999	833.0		mg/Kg		82	70 - 130	16	20	
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1033		mg/Kg		101	70 - 130	9	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	94		70 - 130									
o-Terphenyl (Surr)	86		70 - 130									

Lab Sample ID: MB 880-7933/1-A

Matrix: Solid

Analysis Batch: 7908

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7933

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/15/21 11:57	09/15/21 21:22	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/15/21 11:57	09/15/21 21:22	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/15/21 11:57	09/15/21 21:22	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	114		70 - 130			09/15/21 11:57	09/15/21 21:22	1		
o-Terphenyl (Surr)	137	S1+	70 - 130			09/15/21 11:57	09/15/21 21:22	1		

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-7933/2-A

Matrix: Solid

Analysis Batch: 7908

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7933

Analyte			Spike	LCS	LCS	Unit	D	%Rec.		
			Added	Result	Qualifier			%Rec		
Gasoline Range Organics (GRO)-C6-C10			1000	978.3		mg/Kg		98	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1001		mg/Kg		100	70 - 130	

Lab Sample ID: LCSD 880-7933/3-A

Matrix: Solid

Analysis Batch: 7908

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7933

Top Data: 1000											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	908.7		mg/Kg		91	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1045		mg/Kg		104	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane (Surr)	117		70 - 130								
o-Terphenyl (Surr)	128		70 - 130								

Lab Sample ID: 880-6143-A-21-D MS

Matrix: Solid

Analysis Batch: 7908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7933

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	945.9		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	958.0		mg/Kg		96	70 - 130		

Lab Sample ID: 880-6143-A-21-E MSD

Matrix: Solid

Analysis Batch: 7908

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7933

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	875.9		mg/Kg		88	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	968.4		mg/Kg		97	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	108		70 - 130								

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6143-A-21-E MSD

Matrix: Solid

Analysis Batch: 7908

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7933

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	115		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7879/1-A

Matrix: Solid

Analysis Batch: 7924

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00	mg/Kg			09/15/21 22:25	1	

Lab Sample ID: LCS 880-7879/2-A

Matrix: Solid

Analysis Batch: 7924

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	274.4		mg/Kg		110	90 - 110	

Lab Sample ID: LCSD 880-7879/3-A

Matrix: Solid

Analysis Batch: 7924

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	274.7		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-6058-4 MS

Matrix: Solid

Analysis Batch: 7924

Client Sample ID: C-261

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	25.9	F1	250	320.8	F1	mg/Kg		118	90 - 110		

Lab Sample ID: 880-6058-4 MSD

Matrix: Solid

Analysis Batch: 7924

Client Sample ID: C-261

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	25.9	F1	250	317.0	F1	mg/Kg		116	90 - 110	1	20

Lab Sample ID: MB 880-7883/1-A

Matrix: Solid

Analysis Batch: 7927

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			09/16/21 20:25	1		

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-7883/2-A

Matrix: Solid

Analysis Batch: 7927

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.5		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-7883/3-A

Matrix: Solid

Analysis Batch: 7927

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	251.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-6058-14 MS

Matrix: Solid

Analysis Batch: 7927

Client Sample ID: C-271

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	55.3		250	298.6		mg/Kg		97	90 - 110

Lab Sample ID: 880-6058-14 MSD

Matrix: Solid

Analysis Batch: 7927

Client Sample ID: C-271

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	55.3		250	299.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-6058-24 MS

Matrix: Solid

Analysis Batch: 7927

Client Sample ID: C-281

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	125		252	373.3		mg/Kg		99	90 - 110

Lab Sample ID: 880-6058-24 MSD

Matrix: Solid

Analysis Batch: 7927

Client Sample ID: C-281

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	125		252	374.7		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-7884/1-A

Matrix: Solid

Analysis Batch: 7981

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/17/21 15:32	1

Lab Sample ID: LCS 880-7884/2-A

Matrix: Solid

Analysis Batch: 7981

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.7		mg/Kg		98	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-7884/3-A

Matrix: Solid

Analysis Batch: 7981

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	246.6		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-6058-34 MS

Matrix: Solid

Analysis Batch: 7981

Client Sample ID: C-291

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	116		250	374.5		mg/Kg		104	90 - 110		

Lab Sample ID: 880-6058-34 MSD

Matrix: Solid

Analysis Batch: 7981

Client Sample ID: C-291

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	116		250	374.9		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-6058-44 MS

Matrix: Solid

Analysis Batch: 7981

Client Sample ID: C-301

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	677		248	901.8		mg/Kg		91	90 - 110		

Lab Sample ID: 880-6058-44 MSD

Matrix: Solid

Analysis Batch: 7981

Client Sample ID: C-301

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	677		248	904.2		mg/Kg		92	90 - 110	0	20

Lab Sample ID: MB 880-7885/1-A

Matrix: Solid

Analysis Batch: 7986

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/18/21 03:50	1

Lab Sample ID: LCS 880-7885/2-A

Matrix: Solid

Analysis Batch: 7986

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	245.5		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-7885/3-A

Matrix: Solid

Analysis Batch: 7986

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	246.6		mg/Kg		99	90 - 110	0	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-6058-54 MS

Matrix: Solid

Analysis Batch: 7986

Client Sample ID: C-311

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1750		1240	3082		mg/Kg		108	90 - 110		

Lab Sample ID: 880-6058-54 MSD

Matrix: Solid

Analysis Batch: 7986

Client Sample ID: C-311

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1750		1240	3086		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-6058-64 MS

Matrix: Solid

Analysis Batch: 7986

Client Sample ID: C-321

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	123		250	374.6		mg/Kg		101	90 - 110		

Lab Sample ID: 880-6058-64 MSD

Matrix: Solid

Analysis Batch: 7986

Client Sample ID: C-321

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	123		250	375.7		mg/Kg		101	90 - 110	0	20

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

GC VOA

Prep Batch: 7758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7758/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 7857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-61	C-318	Total/NA	Solid	8021B	7874
880-6058-62	C-319	Total/NA	Solid	8021B	7874
880-6058-63	C-320	Total/NA	Solid	8021B	7874
880-6058-64	C-321	Total/NA	Solid	8021B	7874
880-6058-65	C-322	Total/NA	Solid	8021B	7874
MB 880-7758/5-A	Method Blank	Total/NA	Solid	8021B	7758
MB 880-7874/5-A	Method Blank	Total/NA	Solid	8021B	7874
LCS 880-7874/1-A	Lab Control Sample	Total/NA	Solid	8021B	7874
LCSD 880-7874/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7874
880-6057-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	7874
880-6057-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7874

Prep Batch: 7874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-61	C-318	Total/NA	Solid	5035	
880-6058-62	C-319	Total/NA	Solid	5035	
880-6058-63	C-320	Total/NA	Solid	5035	
880-6058-64	C-321	Total/NA	Solid	5035	
880-6058-65	C-322	Total/NA	Solid	5035	
MB 880-7874/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7874/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7874/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6057-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-6057-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 7875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-1	C-258	Total/NA	Solid	5035	
880-6058-2	C-259	Total/NA	Solid	5035	
880-6058-3	C-260	Total/NA	Solid	5035	
880-6058-4	C-261	Total/NA	Solid	5035	
880-6058-5	C-262	Total/NA	Solid	5035	
880-6058-6	C-263	Total/NA	Solid	5035	
880-6058-7	C-264	Total/NA	Solid	5035	
880-6058-8	C-265	Total/NA	Solid	5035	
880-6058-9	C-266	Total/NA	Solid	5035	
880-6058-10	C-267	Total/NA	Solid	5035	
880-6058-11	C-268	Total/NA	Solid	5035	
880-6058-12	C-269	Total/NA	Solid	5035	
880-6058-13	C-270	Total/NA	Solid	5035	
880-6058-14	C-271	Total/NA	Solid	5035	
880-6058-15	C-272	Total/NA	Solid	5035	
880-6058-16	C-273	Total/NA	Solid	5035	
880-6058-17	C-274	Total/NA	Solid	5035	
880-6058-18	C-275	Total/NA	Solid	5035	
880-6058-19	C-276	Total/NA	Solid	5035	
880-6058-20	C-277	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 7875 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7875/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7875/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7875/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6058-1 MS	C-258	Total/NA	Solid	5035	
880-6058-1 MSD	C-258	Total/NA	Solid	5035	

Prep Batch: 7876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-21	C-278	Total/NA	Solid	5035	
880-6058-22	C-279	Total/NA	Solid	5035	
880-6058-23	C-280	Total/NA	Solid	5035	
880-6058-24	C-281	Total/NA	Solid	5035	
880-6058-25	C-282	Total/NA	Solid	5035	
880-6058-26	C-283	Total/NA	Solid	5035	
880-6058-27	C-284	Total/NA	Solid	5035	
880-6058-28	C-285	Total/NA	Solid	5035	
880-6058-29	C-286	Total/NA	Solid	5035	
880-6058-30	C-287	Total/NA	Solid	5035	
880-6058-31	C-288	Total/NA	Solid	5035	
880-6058-32	C-289	Total/NA	Solid	5035	
880-6058-33	C-290	Total/NA	Solid	5035	
880-6058-34	C-291	Total/NA	Solid	5035	
880-6058-35	C-292	Total/NA	Solid	5035	
880-6058-36	C-293	Total/NA	Solid	5035	
880-6058-37	C-294	Total/NA	Solid	5035	
880-6058-38	C-295	Total/NA	Solid	5035	
880-6058-39	C-296	Total/NA	Solid	5035	
880-6058-40	C-297	Total/NA	Solid	5035	
MB 880-7876/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7876/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7876/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6058-21 MS	C-278	Total/NA	Solid	5035	
880-6058-21 MSD	C-278	Total/NA	Solid	5035	

Analysis Batch: 7877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-1	C-258	Total/NA	Solid	8021B	7875
880-6058-2	C-259	Total/NA	Solid	8021B	7875
880-6058-3	C-260	Total/NA	Solid	8021B	7875
880-6058-4	C-261	Total/NA	Solid	8021B	7875
880-6058-5	C-262	Total/NA	Solid	8021B	7875
880-6058-6	C-263	Total/NA	Solid	8021B	7875
880-6058-7	C-264	Total/NA	Solid	8021B	7875
880-6058-8	C-265	Total/NA	Solid	8021B	7875
880-6058-9	C-266	Total/NA	Solid	8021B	7875
880-6058-10	C-267	Total/NA	Solid	8021B	7875
880-6058-11	C-268	Total/NA	Solid	8021B	7875
880-6058-12	C-269	Total/NA	Solid	8021B	7875
880-6058-13	C-270	Total/NA	Solid	8021B	7875
880-6058-14	C-271	Total/NA	Solid	8021B	7875
880-6058-15	C-272	Total/NA	Solid	8021B	7875

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 7877 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-16	C-273	Total/NA	Solid	8021B	7875
880-6058-17	C-274	Total/NA	Solid	8021B	7875
880-6058-18	C-275	Total/NA	Solid	8021B	7875
880-6058-19	C-276	Total/NA	Solid	8021B	7875
880-6058-20	C-277	Total/NA	Solid	8021B	7875
880-6058-21	C-278	Total/NA	Solid	8021B	7876
880-6058-22	C-279	Total/NA	Solid	8021B	7876
880-6058-23	C-280	Total/NA	Solid	8021B	7876
880-6058-24	C-281	Total/NA	Solid	8021B	7876
880-6058-25	C-282	Total/NA	Solid	8021B	7876
880-6058-26	C-283	Total/NA	Solid	8021B	7876
880-6058-27	C-284	Total/NA	Solid	8021B	7876
880-6058-28	C-285	Total/NA	Solid	8021B	7876
880-6058-29	C-286	Total/NA	Solid	8021B	7876
880-6058-30	C-287	Total/NA	Solid	8021B	7876
880-6058-31	C-288	Total/NA	Solid	8021B	7876
880-6058-32	C-289	Total/NA	Solid	8021B	7876
880-6058-33	C-290	Total/NA	Solid	8021B	7876
880-6058-34	C-291	Total/NA	Solid	8021B	7876
880-6058-35	C-292	Total/NA	Solid	8021B	7876
880-6058-36	C-293	Total/NA	Solid	8021B	7876
880-6058-37	C-294	Total/NA	Solid	8021B	7876
880-6058-38	C-295	Total/NA	Solid	8021B	7876
880-6058-39	C-296	Total/NA	Solid	8021B	7876
880-6058-40	C-297	Total/NA	Solid	8021B	7876
MB 880-7875/5-A	Method Blank	Total/NA	Solid	8021B	7875
MB 880-7876/5-A	Method Blank	Total/NA	Solid	8021B	7876
LCS 880-7875/1-A	Lab Control Sample	Total/NA	Solid	8021B	7875
LCS 880-7876/1-A	Lab Control Sample	Total/NA	Solid	8021B	7876
LCSD 880-7875/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7875
LCSD 880-7876/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7876
880-6058-1 MS	C-258	Total/NA	Solid	8021B	7875
880-6058-1 MSD	C-258	Total/NA	Solid	8021B	7875
880-6058-21 MS	C-278	Total/NA	Solid	8021B	7876
880-6058-21 MSD	C-278	Total/NA	Solid	8021B	7876

Prep Batch: 7878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-41	C-298	Total/NA	Solid	5035	
880-6058-42	C-299	Total/NA	Solid	5035	
880-6058-43	C-300	Total/NA	Solid	5035	
880-6058-44	C-301	Total/NA	Solid	5035	
880-6058-45	C-302	Total/NA	Solid	5035	
880-6058-46	C-303	Total/NA	Solid	5035	
880-6058-47	C-304	Total/NA	Solid	5035	
880-6058-48	C-305	Total/NA	Solid	5035	
880-6058-49	C-306	Total/NA	Solid	5035	
880-6058-50	C-307	Total/NA	Solid	5035	
880-6058-51	C-308	Total/NA	Solid	5035	
880-6058-52	C-309	Total/NA	Solid	5035	
880-6058-53	C-310	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 7878 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-54	C-311	Total/NA	Solid	5035	
880-6058-55	C-312	Total/NA	Solid	5035	
880-6058-56	C-313	Total/NA	Solid	5035	
880-6058-57	C-314	Total/NA	Solid	5035	
880-6058-58	C-315	Total/NA	Solid	5035	
880-6058-59	C-316	Total/NA	Solid	5035	
880-6058-60	C-317	Total/NA	Solid	5035	
MB 880-7878/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7878/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7878/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6058-41 MS	C-298	Total/NA	Solid	5035	
880-6058-41 MSD	C-298	Total/NA	Solid	5035	

Analysis Batch: 7881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-41	C-298	Total/NA	Solid	8021B	7878
880-6058-42	C-299	Total/NA	Solid	8021B	7878
880-6058-43	C-300	Total/NA	Solid	8021B	7878
880-6058-44	C-301	Total/NA	Solid	8021B	7878
880-6058-45	C-302	Total/NA	Solid	8021B	7878
880-6058-46	C-303	Total/NA	Solid	8021B	7878
880-6058-47	C-304	Total/NA	Solid	8021B	7878
880-6058-48	C-305	Total/NA	Solid	8021B	7878
880-6058-49	C-306	Total/NA	Solid	8021B	7878
880-6058-50	C-307	Total/NA	Solid	8021B	7878
880-6058-51	C-308	Total/NA	Solid	8021B	7878
880-6058-52	C-309	Total/NA	Solid	8021B	7878
880-6058-53	C-310	Total/NA	Solid	8021B	7878
880-6058-54	C-311	Total/NA	Solid	8021B	7878
880-6058-55	C-312	Total/NA	Solid	8021B	7878
880-6058-56	C-313	Total/NA	Solid	8021B	7878
880-6058-57	C-314	Total/NA	Solid	8021B	7878
880-6058-58	C-315	Total/NA	Solid	8021B	7878
880-6058-59	C-316	Total/NA	Solid	8021B	7878
880-6058-60	C-317	Total/NA	Solid	8021B	7878
MB 880-7878/5-A	Method Blank	Total/NA	Solid	8021B	7878
LCS 880-7878/1-A	Lab Control Sample	Total/NA	Solid	8021B	7878
LCSD 880-7878/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7878
880-6058-41 MS	C-298	Total/NA	Solid	8021B	7878
880-6058-41 MSD	C-298	Total/NA	Solid	8021B	7878

GC Semi VOA

Prep Batch: 7855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-61	C-318	Total/NA	Solid	8015NM Prep	
880-6058-62	C-319	Total/NA	Solid	8015NM Prep	
880-6058-63	C-320	Total/NA	Solid	8015NM Prep	
880-6058-64	C-321	Total/NA	Solid	8015NM Prep	
880-6058-65	C-322	Total/NA	Solid	8015NM Prep	
MB 880-7855/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 7855 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-7855/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7855/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6052-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6052-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 7858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-61	C-318	Total/NA	Solid	8015B NM	7855
880-6058-62	C-319	Total/NA	Solid	8015B NM	7855
880-6058-63	C-320	Total/NA	Solid	8015B NM	7855
880-6058-64	C-321	Total/NA	Solid	8015B NM	7855
880-6058-65	C-322	Total/NA	Solid	8015B NM	7855
MB 880-7855/1-A	Method Blank	Total/NA	Solid	8015B NM	7855
LCS 880-7855/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7855
LCSD 880-7855/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7855
880-6052-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	7855
880-6052-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7855

Analysis Batch: 7863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-1	C-258	Total/NA	Solid	8015B NM	7880
880-6058-2	C-259	Total/NA	Solid	8015B NM	7880
880-6058-3	C-260	Total/NA	Solid	8015B NM	7880
880-6058-4	C-261	Total/NA	Solid	8015B NM	7880
880-6058-5	C-262	Total/NA	Solid	8015B NM	7880
880-6058-6	C-263	Total/NA	Solid	8015B NM	7880
880-6058-7	C-264	Total/NA	Solid	8015B NM	7880
880-6058-9	C-266	Total/NA	Solid	8015B NM	7880
880-6058-10	C-267	Total/NA	Solid	8015B NM	7880
880-6058-11	C-268	Total/NA	Solid	8015B NM	7880
880-6058-12	C-269	Total/NA	Solid	8015B NM	7880
880-6058-13	C-270	Total/NA	Solid	8015B NM	7880
880-6058-14	C-271	Total/NA	Solid	8015B NM	7880
880-6058-15	C-272	Total/NA	Solid	8015B NM	7880
880-6058-16	C-273	Total/NA	Solid	8015B NM	7880
880-6058-17	C-274	Total/NA	Solid	8015B NM	7880
880-6058-18	C-275	Total/NA	Solid	8015B NM	7880
880-6058-19	C-276	Total/NA	Solid	8015B NM	7880
880-6058-20	C-277	Total/NA	Solid	8015B NM	7880
880-6058-41	C-298	Total/NA	Solid	8015B NM	7886
880-6058-42	C-299	Total/NA	Solid	8015B NM	7886
880-6058-43	C-300	Total/NA	Solid	8015B NM	7886
880-6058-44	C-301	Total/NA	Solid	8015B NM	7886
880-6058-45	C-302	Total/NA	Solid	8015B NM	7886
880-6058-46	C-303	Total/NA	Solid	8015B NM	7886
880-6058-47	C-304	Total/NA	Solid	8015B NM	7886
880-6058-48	C-305	Total/NA	Solid	8015B NM	7886
880-6058-49	C-306	Total/NA	Solid	8015B NM	7886
880-6058-50	C-307	Total/NA	Solid	8015B NM	7886
880-6058-51	C-308	Total/NA	Solid	8015B NM	7886
880-6058-52	C-309	Total/NA	Solid	8015B NM	7886

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 7863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-53	C-310	Total/NA	Solid	8015B NM	7886
880-6058-54	C-311	Total/NA	Solid	8015B NM	7886
880-6058-55	C-312	Total/NA	Solid	8015B NM	7886
880-6058-56	C-313	Total/NA	Solid	8015B NM	7886
880-6058-57	C-314	Total/NA	Solid	8015B NM	7886
880-6058-58	C-315	Total/NA	Solid	8015B NM	7886
880-6058-59	C-316	Total/NA	Solid	8015B NM	7886
880-6058-60	C-317	Total/NA	Solid	8015B NM	7886
MB 880-7880/1-A	Method Blank	Total/NA	Solid	8015B NM	7880
MB 880-7886/1-A	Method Blank	Total/NA	Solid	8015B NM	7886
LCS 880-7880/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7880
LCS 880-7886/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7886
LCSD 880-7880/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7880
LCSD 880-7886/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7886
880-6058-1 MS	C-258	Total/NA	Solid	8015B NM	7880
880-6058-1 MSD	C-258	Total/NA	Solid	8015B NM	7880
880-6058-41 MS	C-298	Total/NA	Solid	8015B NM	7886
880-6058-41 MSD	C-298	Total/NA	Solid	8015B NM	7886

Analysis Batch: 7865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-21	C-278	Total/NA	Solid	8015B NM	7882
880-6058-22	C-279	Total/NA	Solid	8015B NM	7882
880-6058-23	C-280	Total/NA	Solid	8015B NM	7882
880-6058-24	C-281	Total/NA	Solid	8015B NM	7882
880-6058-25	C-282	Total/NA	Solid	8015B NM	7882
880-6058-26	C-283	Total/NA	Solid	8015B NM	7882
880-6058-27	C-284	Total/NA	Solid	8015B NM	7882
880-6058-29	C-286	Total/NA	Solid	8015B NM	7882
880-6058-30	C-287	Total/NA	Solid	8015B NM	7882
880-6058-31	C-288	Total/NA	Solid	8015B NM	7882
880-6058-32	C-289	Total/NA	Solid	8015B NM	7882
880-6058-33	C-290	Total/NA	Solid	8015B NM	7882
880-6058-34	C-291	Total/NA	Solid	8015B NM	7882
880-6058-35	C-292	Total/NA	Solid	8015B NM	7882
880-6058-38	C-295	Total/NA	Solid	8015B NM	7882
880-6058-40	C-297	Total/NA	Solid	8015B NM	7882
MB 880-7882/1-A	Method Blank	Total/NA	Solid	8015B NM	7882
LCS 880-7882/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7882
LCSD 880-7882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7882
880-6058-21 MS	C-278	Total/NA	Solid	8015B NM	7882
880-6058-21 MSD	C-278	Total/NA	Solid	8015B NM	7882

Prep Batch: 7880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-1	C-258	Total/NA	Solid	8015NM Prep	
880-6058-2	C-259	Total/NA	Solid	8015NM Prep	
880-6058-3	C-260	Total/NA	Solid	8015NM Prep	
880-6058-4	C-261	Total/NA	Solid	8015NM Prep	
880-6058-5	C-262	Total/NA	Solid	8015NM Prep	
880-6058-6	C-263	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 7880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-7	C-264	Total/NA	Solid	8015NM Prep	
880-6058-9	C-266	Total/NA	Solid	8015NM Prep	
880-6058-10	C-267	Total/NA	Solid	8015NM Prep	
880-6058-11	C-268	Total/NA	Solid	8015NM Prep	
880-6058-12	C-269	Total/NA	Solid	8015NM Prep	
880-6058-13	C-270	Total/NA	Solid	8015NM Prep	
880-6058-14	C-271	Total/NA	Solid	8015NM Prep	
880-6058-15	C-272	Total/NA	Solid	8015NM Prep	
880-6058-16	C-273	Total/NA	Solid	8015NM Prep	
880-6058-17	C-274	Total/NA	Solid	8015NM Prep	
880-6058-18	C-275	Total/NA	Solid	8015NM Prep	
880-6058-19	C-276	Total/NA	Solid	8015NM Prep	
880-6058-20	C-277	Total/NA	Solid	8015NM Prep	
MB 880-7880/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7880/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7880/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6058-1 MS	C-258	Total/NA	Solid	8015NM Prep	
880-6058-1 MSD	C-258	Total/NA	Solid	8015NM Prep	

Prep Batch: 7882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-21	C-278	Total/NA	Solid	8015NM Prep	
880-6058-22	C-279	Total/NA	Solid	8015NM Prep	
880-6058-23	C-280	Total/NA	Solid	8015NM Prep	
880-6058-24	C-281	Total/NA	Solid	8015NM Prep	
880-6058-25	C-282	Total/NA	Solid	8015NM Prep	
880-6058-26	C-283	Total/NA	Solid	8015NM Prep	
880-6058-27	C-284	Total/NA	Solid	8015NM Prep	
880-6058-29	C-286	Total/NA	Solid	8015NM Prep	
880-6058-30	C-287	Total/NA	Solid	8015NM Prep	
880-6058-31	C-288	Total/NA	Solid	8015NM Prep	
880-6058-32	C-289	Total/NA	Solid	8015NM Prep	
880-6058-33	C-290	Total/NA	Solid	8015NM Prep	
880-6058-34	C-291	Total/NA	Solid	8015NM Prep	
880-6058-35	C-292	Total/NA	Solid	8015NM Prep	
880-6058-38	C-295	Total/NA	Solid	8015NM Prep	
880-6058-40	C-297	Total/NA	Solid	8015NM Prep	
MB 880-7882/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7882/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6058-21 MS	C-278	Total/NA	Solid	8015NM Prep	
880-6058-21 MSD	C-278	Total/NA	Solid	8015NM Prep	

Prep Batch: 7886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-41	C-298	Total/NA	Solid	8015NM Prep	
880-6058-42	C-299	Total/NA	Solid	8015NM Prep	
880-6058-43	C-300	Total/NA	Solid	8015NM Prep	
880-6058-44	C-301	Total/NA	Solid	8015NM Prep	
880-6058-45	C-302	Total/NA	Solid	8015NM Prep	
880-6058-46	C-303	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 7886 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-47	C-304	Total/NA	Solid	8015NM Prep	
880-6058-48	C-305	Total/NA	Solid	8015NM Prep	
880-6058-49	C-306	Total/NA	Solid	8015NM Prep	
880-6058-50	C-307	Total/NA	Solid	8015NM Prep	
880-6058-51	C-308	Total/NA	Solid	8015NM Prep	
880-6058-52	C-309	Total/NA	Solid	8015NM Prep	
880-6058-53	C-310	Total/NA	Solid	8015NM Prep	
880-6058-54	C-311	Total/NA	Solid	8015NM Prep	
880-6058-55	C-312	Total/NA	Solid	8015NM Prep	
880-6058-56	C-313	Total/NA	Solid	8015NM Prep	
880-6058-57	C-314	Total/NA	Solid	8015NM Prep	
880-6058-58	C-315	Total/NA	Solid	8015NM Prep	
880-6058-59	C-316	Total/NA	Solid	8015NM Prep	
880-6058-60	C-317	Total/NA	Solid	8015NM Prep	
MB 880-7886/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7886/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7886/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6058-41 MS	C-298	Total/NA	Solid	8015NM Prep	
880-6058-41 MSD	C-298	Total/NA	Solid	8015NM Prep	

Prep Batch: 7895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-36	C-293	Total/NA	Solid	8015NM Prep	
880-6058-37	C-294	Total/NA	Solid	8015NM Prep	
880-6058-39	C-296	Total/NA	Solid	8015NM Prep	
MB 880-7895/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7895/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7895/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6120-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6120-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 7908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-8	C-265	Total/NA	Solid	8015B NM	7933
880-6058-28	C-285	Total/NA	Solid	8015B NM	7933
MB 880-7933/1-A	Method Blank	Total/NA	Solid	8015B NM	7933
LCS 880-7933/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7933
LCSD 880-7933/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7933
880-6143-A-21-D MS	Matrix Spike	Total/NA	Solid	8015B NM	7933
880-6143-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7933

Analysis Batch: 7910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-36	C-293	Total/NA	Solid	8015B NM	7895
880-6058-37	C-294	Total/NA	Solid	8015B NM	7895
880-6058-39	C-296	Total/NA	Solid	8015B NM	7895
MB 880-7895/1-A	Method Blank	Total/NA	Solid	8015B NM	7895
LCS 880-7895/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7895
LCSD 880-7895/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7895
880-6120-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	7895
880-6120-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7895

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 7933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-8	C-265	Total/NA	Solid	8015NM Prep	
880-6058-28	C-285	Total/NA	Solid	8015NM Prep	
MB 880-7933/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7933/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7933/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6143-A-21-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6143-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-1	C-258	Soluble	Solid	DI Leach	
880-6058-2	C-259	Soluble	Solid	DI Leach	
880-6058-3	C-260	Soluble	Solid	DI Leach	
880-6058-4	C-261	Soluble	Solid	DI Leach	
880-6058-5	C-262	Soluble	Solid	DI Leach	
880-6058-6	C-263	Soluble	Solid	DI Leach	
880-6058-7	C-264	Soluble	Solid	DI Leach	
880-6058-8	C-265	Soluble	Solid	DI Leach	
880-6058-9	C-266	Soluble	Solid	DI Leach	
880-6058-10	C-267	Soluble	Solid	DI Leach	
880-6058-11	C-268	Soluble	Solid	DI Leach	
880-6058-12	C-269	Soluble	Solid	DI Leach	
880-6058-13	C-270	Soluble	Solid	DI Leach	
MB 880-7879/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7879/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7879/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6058-4 MS	C-261	Soluble	Solid	DI Leach	
880-6058-4 MSD	C-261	Soluble	Solid	DI Leach	

Leach Batch: 7883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-14	C-271	Soluble	Solid	DI Leach	
880-6058-15	C-272	Soluble	Solid	DI Leach	
880-6058-16	C-273	Soluble	Solid	DI Leach	
880-6058-17	C-274	Soluble	Solid	DI Leach	
880-6058-18	C-275	Soluble	Solid	DI Leach	
880-6058-19	C-276	Soluble	Solid	DI Leach	
880-6058-20	C-277	Soluble	Solid	DI Leach	
880-6058-21	C-278	Soluble	Solid	DI Leach	
880-6058-22	C-279	Soluble	Solid	DI Leach	
880-6058-23	C-280	Soluble	Solid	DI Leach	
880-6058-24	C-281	Soluble	Solid	DI Leach	
880-6058-25	C-282	Soluble	Solid	DI Leach	
880-6058-26	C-283	Soluble	Solid	DI Leach	
880-6058-27	C-284	Soluble	Solid	DI Leach	
880-6058-28	C-285	Soluble	Solid	DI Leach	
880-6058-29	C-286	Soluble	Solid	DI Leach	
880-6058-30	C-287	Soluble	Solid	DI Leach	
880-6058-31	C-288	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 7883 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-32	C-289	Soluble	Solid	DI Leach	
880-6058-33	C-290	Soluble	Solid	DI Leach	
MB 880-7883/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7883/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7883/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6058-14 MS	C-271	Soluble	Solid	DI Leach	
880-6058-14 MSD	C-271	Soluble	Solid	DI Leach	
880-6058-24 MS	C-281	Soluble	Solid	DI Leach	
880-6058-24 MSD	C-281	Soluble	Solid	DI Leach	

Leach Batch: 7884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-34	C-291	Soluble	Solid	DI Leach	
880-6058-35	C-292	Soluble	Solid	DI Leach	
880-6058-36	C-293	Soluble	Solid	DI Leach	
880-6058-37	C-294	Soluble	Solid	DI Leach	
880-6058-38	C-295	Soluble	Solid	DI Leach	
880-6058-39	C-296	Soluble	Solid	DI Leach	
880-6058-40	C-297	Soluble	Solid	DI Leach	
880-6058-41	C-298	Soluble	Solid	DI Leach	
880-6058-42	C-299	Soluble	Solid	DI Leach	
880-6058-43	C-300	Soluble	Solid	DI Leach	
880-6058-44	C-301	Soluble	Solid	DI Leach	
880-6058-45	C-302	Soluble	Solid	DI Leach	
880-6058-46	C-303	Soluble	Solid	DI Leach	
880-6058-47	C-304	Soluble	Solid	DI Leach	
880-6058-48	C-305	Soluble	Solid	DI Leach	
880-6058-49	C-306	Soluble	Solid	DI Leach	
880-6058-50	C-307	Soluble	Solid	DI Leach	
880-6058-51	C-308	Soluble	Solid	DI Leach	
880-6058-52	C-309	Soluble	Solid	DI Leach	
880-6058-53	C-310	Soluble	Solid	DI Leach	
MB 880-7884/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7884/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7884/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6058-34 MS	C-291	Soluble	Solid	DI Leach	
880-6058-34 MSD	C-291	Soluble	Solid	DI Leach	
880-6058-44 MS	C-301	Soluble	Solid	DI Leach	
880-6058-44 MSD	C-301	Soluble	Solid	DI Leach	

Leach Batch: 7885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-54	C-311	Soluble	Solid	DI Leach	
880-6058-55	C-312	Soluble	Solid	DI Leach	
880-6058-56	C-313	Soluble	Solid	DI Leach	
880-6058-57	C-314	Soluble	Solid	DI Leach	
880-6058-58	C-315	Soluble	Solid	DI Leach	
880-6058-59	C-316	Soluble	Solid	DI Leach	
880-6058-60	C-317	Soluble	Solid	DI Leach	
880-6058-61	C-318	Soluble	Solid	DI Leach	
880-6058-62	C-319	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 7885 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-63	C-320	Soluble	Solid	DI Leach	
880-6058-64	C-321	Soluble	Solid	DI Leach	
880-6058-65	C-322	Soluble	Solid	DI Leach	
MB 880-7885/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7885/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7885/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6058-54 MS	C-311	Soluble	Solid	DI Leach	
880-6058-54 MSD	C-311	Soluble	Solid	DI Leach	
880-6058-64 MS	C-321	Soluble	Solid	DI Leach	
880-6058-64 MSD	C-321	Soluble	Solid	DI Leach	

Analysis Batch: 7924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-1	C-258	Soluble	Solid	300.0	7879
880-6058-2	C-259	Soluble	Solid	300.0	7879
880-6058-3	C-260	Soluble	Solid	300.0	7879
880-6058-4	C-261	Soluble	Solid	300.0	7879
880-6058-5	C-262	Soluble	Solid	300.0	7879
880-6058-6	C-263	Soluble	Solid	300.0	7879
880-6058-7	C-264	Soluble	Solid	300.0	7879
880-6058-8	C-265	Soluble	Solid	300.0	7879
880-6058-9	C-266	Soluble	Solid	300.0	7879
880-6058-10	C-267	Soluble	Solid	300.0	7879
880-6058-11	C-268	Soluble	Solid	300.0	7879
880-6058-12	C-269	Soluble	Solid	300.0	7879
880-6058-13	C-270	Soluble	Solid	300.0	7879
MB 880-7879/1-A	Method Blank	Soluble	Solid	300.0	7879
LCS 880-7879/2-A	Lab Control Sample	Soluble	Solid	300.0	7879
LCSD 880-7879/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7879
880-6058-4 MS	C-261	Soluble	Solid	300.0	7879
880-6058-4 MSD	C-261	Soluble	Solid	300.0	7879

Analysis Batch: 7927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-14	C-271	Soluble	Solid	300.0	7883
880-6058-15	C-272	Soluble	Solid	300.0	7883
880-6058-16	C-273	Soluble	Solid	300.0	7883
880-6058-17	C-274	Soluble	Solid	300.0	7883
880-6058-18	C-275	Soluble	Solid	300.0	7883
880-6058-19	C-276	Soluble	Solid	300.0	7883
880-6058-20	C-277	Soluble	Solid	300.0	7883
880-6058-21	C-278	Soluble	Solid	300.0	7883
880-6058-22	C-279	Soluble	Solid	300.0	7883
880-6058-23	C-280	Soluble	Solid	300.0	7883
880-6058-24	C-281	Soluble	Solid	300.0	7883
880-6058-25	C-282	Soluble	Solid	300.0	7883
880-6058-26	C-283	Soluble	Solid	300.0	7883
880-6058-27	C-284	Soluble	Solid	300.0	7883
880-6058-28	C-285	Soluble	Solid	300.0	7883
880-6058-29	C-286	Soluble	Solid	300.0	7883
880-6058-30	C-287	Soluble	Solid	300.0	7883

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 7927 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-31	C-288	Soluble	Solid	300.0	7883
880-6058-32	C-289	Soluble	Solid	300.0	7883
880-6058-33	C-290	Soluble	Solid	300.0	7883
MB 880-7883/1-A	Method Blank	Soluble	Solid	300.0	7883
LCS 880-7883/2-A	Lab Control Sample	Soluble	Solid	300.0	7883
LCSD 880-7883/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7883
880-6058-14 MS	C-271	Soluble	Solid	300.0	7883
880-6058-14 MSD	C-271	Soluble	Solid	300.0	7883
880-6058-24 MS	C-281	Soluble	Solid	300.0	7883
880-6058-24 MSD	C-281	Soluble	Solid	300.0	7883

Analysis Batch: 7981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-34	C-291	Soluble	Solid	300.0	7884
880-6058-35	C-292	Soluble	Solid	300.0	7884
880-6058-36	C-293	Soluble	Solid	300.0	7884
880-6058-37	C-294	Soluble	Solid	300.0	7884
880-6058-38	C-295	Soluble	Solid	300.0	7884
880-6058-39	C-296	Soluble	Solid	300.0	7884
880-6058-40	C-297	Soluble	Solid	300.0	7884
880-6058-41	C-298	Soluble	Solid	300.0	7884
880-6058-42	C-299	Soluble	Solid	300.0	7884
880-6058-43	C-300	Soluble	Solid	300.0	7884
880-6058-44	C-301	Soluble	Solid	300.0	7884
880-6058-45	C-302	Soluble	Solid	300.0	7884
880-6058-46	C-303	Soluble	Solid	300.0	7884
880-6058-47	C-304	Soluble	Solid	300.0	7884
880-6058-48	C-305	Soluble	Solid	300.0	7884
880-6058-49	C-306	Soluble	Solid	300.0	7884
880-6058-50	C-307	Soluble	Solid	300.0	7884
880-6058-51	C-308	Soluble	Solid	300.0	7884
880-6058-52	C-309	Soluble	Solid	300.0	7884
880-6058-53	C-310	Soluble	Solid	300.0	7884
MB 880-7884/1-A	Method Blank	Soluble	Solid	300.0	7884
LCS 880-7884/2-A	Lab Control Sample	Soluble	Solid	300.0	7884
LCSD 880-7884/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7884
880-6058-34 MS	C-291	Soluble	Solid	300.0	7884
880-6058-34 MSD	C-291	Soluble	Solid	300.0	7884
880-6058-44 MS	C-301	Soluble	Solid	300.0	7884
880-6058-44 MSD	C-301	Soluble	Solid	300.0	7884

Analysis Batch: 7986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-54	C-311	Soluble	Solid	300.0	7885
880-6058-55	C-312	Soluble	Solid	300.0	7885
880-6058-56	C-313	Soluble	Solid	300.0	7885
880-6058-57	C-314	Soluble	Solid	300.0	7885
880-6058-58	C-315	Soluble	Solid	300.0	7885
880-6058-59	C-316	Soluble	Solid	300.0	7885
880-6058-60	C-317	Soluble	Solid	300.0	7885
880-6058-61	C-318	Soluble	Solid	300.0	7885

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 7986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6058-62	C-319	Soluble	Solid	300.0	7885
880-6058-63	C-320	Soluble	Solid	300.0	7885
880-6058-64	C-321	Soluble	Solid	300.0	7885
880-6058-65	C-322	Soluble	Solid	300.0	7885
MB 880-7885/1-A	Method Blank	Soluble	Solid	300.0	7885
LCS 880-7885/2-A	Lab Control Sample	Soluble	Solid	300.0	7885
LCSD 880-7885/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7885
880-6058-54 MS	C-311	Soluble	Solid	300.0	7885
880-6058-54 MSD	C-311	Soluble	Solid	300.0	7885
880-6058-64 MS	C-321	Soluble	Solid	300.0	7885
880-6058-64 MSD	C-321	Soluble	Solid	300.0	7885

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-258

Lab Sample ID: 880-6058-1

Date Collected: 09/08/21 13:00

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 18:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 13:51	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/15/21 23:44	CH	XEN MID

Client Sample ID: C-259

Lab Sample ID: 880-6058-2

Date Collected: 09/08/21 13:01

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 18:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 15:30	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/15/21 23:50	CH	XEN MID

Client Sample ID: C-260

Lab Sample ID: 880-6058-3

Date Collected: 09/08/21 13:02

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 18:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 15:51	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/15/21 23:56	CH	XEN MID

Client Sample ID: C-261

Lab Sample ID: 880-6058-4

Date Collected: 09/08/21 13:03

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 19:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 16:13	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/16/21 00:01	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-262

Lab Sample ID: 880-6058-5

Date Collected: 09/08/21 13:04

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 19:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 16:34	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/16/21 00:18	CH	XEN MID

Client Sample ID: C-263

Lab Sample ID: 880-6058-6

Date Collected: 09/08/21 13:05

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 19:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 16:55	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/16/21 00:24	CH	XEN MID

Client Sample ID: C-264

Lab Sample ID: 880-6058-7

Date Collected: 09/08/21 13:06

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 20:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 17:17	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/16/21 00:41	CH	XEN MID

Client Sample ID: C-265

Lab Sample ID: 880-6058-8

Date Collected: 09/08/21 13:07

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 20:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7933	09/15/21 11:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7908	09/16/21 03:41	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/16/21 00:47	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-266

Lab Sample ID: 880-6058-9

Date Collected: 09/08/21 13:08

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 20:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 17:39	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/16/21 00:52	CH	XEN MID

Client Sample ID: C-267

Lab Sample ID: 880-6058-10

Date Collected: 09/08/21 13:09

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 21:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 18:00	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/16/21 00:58	CH	XEN MID

Client Sample ID: C-268

Lab Sample ID: 880-6058-11

Date Collected: 09/08/21 13:10

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 22:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 18:43	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/16/21 01:03	CH	XEN MID

Client Sample ID: C-269

Lab Sample ID: 880-6058-12

Date Collected: 09/08/21 13:11

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 23:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 19:05	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/16/21 01:09	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-270

Lab Sample ID: 880-6058-13

Date Collected: 09/08/21 13:12

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 23:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 19:26	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7879	09/14/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			7924	09/16/21 01:15	CH	XEN MID

Client Sample ID: C-271

Lab Sample ID: 880-6058-14

Date Collected: 09/08/21 13:13

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/14/21 23:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 19:47	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 20:42	CH	XEN MID

Client Sample ID: C-272

Lab Sample ID: 880-6058-15

Date Collected: 09/08/21 13:14

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 00:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 20:09	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 20:59	CH	XEN MID

Client Sample ID: C-273

Lab Sample ID: 880-6058-16

Date Collected: 09/08/21 13:15

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 00:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 20:31	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 21:05	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-274

Lab Sample ID: 880-6058-17

Date Collected: 09/08/21 13:16

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 00:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 20:52	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 21:10	CH	XEN MID

Client Sample ID: C-275

Lab Sample ID: 880-6058-18

Date Collected: 09/08/21 13:17

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 01:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 21:14	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 21:16	CH	XEN MID

Client Sample ID: C-276

Lab Sample ID: 880-6058-19

Date Collected: 09/08/21 13:18

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 01:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 21:36	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 21:33	CH	XEN MID

Client Sample ID: C-277

Lab Sample ID: 880-6058-20

Date Collected: 09/08/21 13:19

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7875	09/14/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 01:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7880	09/14/21 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 21:58	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 21:38	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-278

Lab Sample ID: 880-6058-21

Date Collected: 09/08/21 13:20

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 05:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 13:51	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 21:44	CH	XEN MID

Client Sample ID: C-279

Lab Sample ID: 880-6058-22

Date Collected: 09/08/21 13:21

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 05:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 15:30	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 21:49	CH	XEN MID

Client Sample ID: C-280

Lab Sample ID: 880-6058-23

Date Collected: 09/08/21 13:22

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 05:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 15:51	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 21:55	CH	XEN MID

Client Sample ID: C-281

Lab Sample ID: 880-6058-24

Date Collected: 09/08/21 13:23

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 06:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 16:13	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 22:01	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-282

Lab Sample ID: 880-6058-25

Date Collected: 09/08/21 13:24

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 06:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 16:34	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 22:17	CH	XEN MID

Client Sample ID: C-283

Lab Sample ID: 880-6058-26

Date Collected: 09/08/21 13:25

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 07:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 16:55	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 22:23	CH	XEN MID

Client Sample ID: C-284

Lab Sample ID: 880-6058-27

Date Collected: 09/08/21 13:26

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 07:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 17:17	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 22:40	CH	XEN MID

Client Sample ID: C-285

Lab Sample ID: 880-6058-28

Date Collected: 09/08/21 13:27

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 07:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7933	09/15/21 11:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7908	09/16/21 04:02	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 22:46	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-286

Lab Sample ID: 880-6058-29

Date Collected: 09/08/21 13:28

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 08:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 17:39	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 22:51	CH	XEN MID

Client Sample ID: C-287

Lab Sample ID: 880-6058-30

Date Collected: 09/08/21 13:29

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 08:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 18:00	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 22:57	CH	XEN MID

Client Sample ID: C-288

Lab Sample ID: 880-6058-31

Date Collected: 09/08/21 13:30

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 10:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 18:43	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 23:02	CH	XEN MID

Client Sample ID: C-289

Lab Sample ID: 880-6058-32

Date Collected: 09/08/21 13:31

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 10:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 19:05	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 23:08	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-290

Lab Sample ID: 880-6058-33

Date Collected: 09/08/21 13:32

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 11:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 19:26	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7883	09/14/21 11:28	CH	XEN MID
Soluble	Analysis	300.0		1			7927	09/16/21 23:14	CH	XEN MID

Client Sample ID: C-291

Lab Sample ID: 880-6058-34

Date Collected: 09/08/21 13:33

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 11:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 19:47	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 15:48	CH	XEN MID

Client Sample ID: C-292

Lab Sample ID: 880-6058-35

Date Collected: 09/08/21 13:34

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 11:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 20:09	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 16:05	CH	XEN MID

Client Sample ID: C-293

Lab Sample ID: 880-6058-36

Date Collected: 09/08/21 13:35

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 12:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7895	09/15/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7910	09/15/21 19:58	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 16:11	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-294

Lab Sample ID: 880-6058-37

Date Collected: 09/08/21 13:36

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 12:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7895	09/15/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7910	09/15/21 20:19	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 16:16	CH	XEN MID

Client Sample ID: C-295

Lab Sample ID: 880-6058-38

Date Collected: 09/08/21 13:37

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 12:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 21:14	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 16:22	CH	XEN MID

Client Sample ID: C-296

Lab Sample ID: 880-6058-39

Date Collected: 09/08/21 13:38

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 13:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7895	09/15/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7910	09/15/21 20:40	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 16:39	CH	XEN MID

Client Sample ID: C-297

Lab Sample ID: 880-6058-40

Date Collected: 09/08/21 13:39

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7876	09/14/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7877	09/15/21 13:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7882	09/14/21 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/14/21 21:58	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 16:45	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-298

Lab Sample ID: 880-6058-41

Date Collected: 09/09/21 15:01

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 17:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/14/21 23:47	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 16:50	CH	XEN MID

Client Sample ID: C-299

Lab Sample ID: 880-6058-42

Date Collected: 09/09/21 15:02

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 17:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 00:52	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 16:56	CH	XEN MID

Client Sample ID: C-300

Lab Sample ID: 880-6058-43

Date Collected: 09/09/21 15:03

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 18:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 01:14	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 17:02	CH	XEN MID

Client Sample ID: C-301

Lab Sample ID: 880-6058-44

Date Collected: 09/09/21 15:04

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 18:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 01:36	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 17:07	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-302

Lab Sample ID: 880-6058-45

Date Collected: 09/09/21 15:05

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 18:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 01:57	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 17:24	CH	XEN MID

Client Sample ID: C-303

Lab Sample ID: 880-6058-46

Date Collected: 09/09/21 15:06

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 19:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 02:19	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 17:30	CH	XEN MID

Client Sample ID: C-304

Lab Sample ID: 880-6058-47

Date Collected: 09/09/21 15:07

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 19:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 02:41	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 17:47	CH	XEN MID

Client Sample ID: C-305

Lab Sample ID: 880-6058-48

Date Collected: 09/09/21 15:08

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 19:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 03:03	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 17:52	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-306

Lab Sample ID: 880-6058-49

Date Collected: 09/09/21 15:09

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 20:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 03:24	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 17:58	CH	XEN MID

Client Sample ID: C-307

Lab Sample ID: 880-6058-50

Date Collected: 09/09/21 15:10

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 20:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 03:46	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 18:03	CH	XEN MID

Client Sample ID: C-308

Lab Sample ID: 880-6058-51

Date Collected: 09/09/21 15:11

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 22:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 04:29	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 18:09	CH	XEN MID

Client Sample ID: C-309

Lab Sample ID: 880-6058-52

Date Collected: 09/09/21 15:12

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 22:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 04:50	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			7981	09/17/21 18:15	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-310**Lab Sample ID: 880-6058-53****Date Collected: 09/09/21 15:13****Matrix: Solid****Date Received: 09/14/21 10:18**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 23:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 05:11	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7884	09/14/21 11:32	CH	XEN MID
Soluble	Analysis	300.0		5			7981	09/17/21 18:20	CH	XEN MID

Client Sample ID: C-311**Lab Sample ID: 880-6058-54****Date Collected: 09/09/21 15:14****Matrix: Solid****Date Received: 09/14/21 10:18**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 23:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 05:31	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		5			7986	09/18/21 04:07	CH	XEN MID

Client Sample ID: C-312**Lab Sample ID: 880-6058-55****Date Collected: 09/09/21 15:15****Matrix: Solid****Date Received: 09/14/21 10:18**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/14/21 23:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 05:52	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 04:23	CH	XEN MID

Client Sample ID: C-313**Lab Sample ID: 880-6058-56****Date Collected: 09/09/21 15:07****Matrix: Solid****Date Received: 09/14/21 10:18**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/15/21 00:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 06:13	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 04:29	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-314

Lab Sample ID: 880-6058-57

Date Collected: 09/09/21 15:17

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/15/21 00:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 06:34	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 04:35	CH	XEN MID

Client Sample ID: C-315

Lab Sample ID: 880-6058-58

Date Collected: 09/09/21 15:18

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/15/21 00:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 06:55	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 04:40	CH	XEN MID

Client Sample ID: C-316

Lab Sample ID: 880-6058-59

Date Collected: 09/09/21 15:19

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/15/21 01:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 07:16	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 04:57	CH	XEN MID

Client Sample ID: C-317

Lab Sample ID: 880-6058-60

Date Collected: 09/09/21 15:20

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7878	09/14/21 11:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/15/21 01:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7886	09/14/21 14:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7863	09/15/21 07:38	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 05:03	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-318

Lab Sample ID: 880-6058-61

Date Collected: 09/09/21 15:21

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7874	09/14/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 05:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7855	09/14/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7858	09/14/21 18:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 05:08	CH	XEN MID

Client Sample ID: C-319

Lab Sample ID: 880-6058-62

Date Collected: 09/09/21 15:22

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7874	09/14/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 05:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7855	09/14/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7858	09/14/21 18:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 05:14	CH	XEN MID

Client Sample ID: C-320

Lab Sample ID: 880-6058-63

Date Collected: 09/09/21 15:23

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7874	09/14/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 06:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7855	09/14/21 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7858	09/14/21 19:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 05:19	CH	XEN MID

Client Sample ID: C-321

Lab Sample ID: 880-6058-64

Date Collected: 09/09/21 15:24

Matrix: Solid

Date Received: 09/14/21 10:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7874	09/14/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 06:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7855	09/14/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7858	09/14/21 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 05:25	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Client Sample ID: C-322
Date Collected: 09/09/21 15:24
Date Received: 09/14/21 10:18

Lab Sample ID: 880-6058-65
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7874	09/14/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 06:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7855	09/14/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7858	09/14/21 19:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 05:42	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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Method Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6058-1	C-258	Solid	09/08/21 13:00	09/14/21 10:18
880-6058-2	C-259	Solid	09/08/21 13:01	09/14/21 10:18
880-6058-3	C-260	Solid	09/08/21 13:02	09/14/21 10:18
880-6058-4	C-261	Solid	09/08/21 13:03	09/14/21 10:18
880-6058-5	C-262	Solid	09/08/21 13:04	09/14/21 10:18
880-6058-6	C-263	Solid	09/08/21 13:05	09/14/21 10:18
880-6058-7	C-264	Solid	09/08/21 13:06	09/14/21 10:18
880-6058-8	C-265	Solid	09/08/21 13:07	09/14/21 10:18
880-6058-9	C-266	Solid	09/08/21 13:08	09/14/21 10:18
880-6058-10	C-267	Solid	09/08/21 13:09	09/14/21 10:18
880-6058-11	C-268	Solid	09/08/21 13:10	09/14/21 10:18
880-6058-12	C-269	Solid	09/08/21 13:11	09/14/21 10:18
880-6058-13	C-270	Solid	09/08/21 13:12	09/14/21 10:18
880-6058-14	C-271	Solid	09/08/21 13:13	09/14/21 10:18
880-6058-15	C-272	Solid	09/08/21 13:14	09/14/21 10:18
880-6058-16	C-273	Solid	09/08/21 13:15	09/14/21 10:18
880-6058-17	C-274	Solid	09/08/21 13:16	09/14/21 10:18
880-6058-18	C-275	Solid	09/08/21 13:17	09/14/21 10:18
880-6058-19	C-276	Solid	09/08/21 13:18	09/14/21 10:18
880-6058-20	C-277	Solid	09/08/21 13:19	09/14/21 10:18
880-6058-21	C-278	Solid	09/08/21 13:20	09/14/21 10:18
880-6058-22	C-279	Solid	09/08/21 13:21	09/14/21 10:18
880-6058-23	C-280	Solid	09/08/21 13:22	09/14/21 10:18
880-6058-24	C-281	Solid	09/08/21 13:23	09/14/21 10:18
880-6058-25	C-282	Solid	09/08/21 13:24	09/14/21 10:18
880-6058-26	C-283	Solid	09/08/21 13:25	09/14/21 10:18
880-6058-27	C-284	Solid	09/08/21 13:26	09/14/21 10:18
880-6058-28	C-285	Solid	09/08/21 13:27	09/14/21 10:18
880-6058-29	C-286	Solid	09/08/21 13:28	09/14/21 10:18
880-6058-30	C-287	Solid	09/08/21 13:29	09/14/21 10:18
880-6058-31	C-288	Solid	09/08/21 13:30	09/14/21 10:18
880-6058-32	C-289	Solid	09/08/21 13:31	09/14/21 10:18
880-6058-33	C-290	Solid	09/08/21 13:32	09/14/21 10:18
880-6058-34	C-291	Solid	09/08/21 13:33	09/14/21 10:18
880-6058-35	C-292	Solid	09/08/21 13:34	09/14/21 10:18
880-6058-36	C-293	Solid	09/08/21 13:35	09/14/21 10:18
880-6058-37	C-294	Solid	09/08/21 13:36	09/14/21 10:18
880-6058-38	C-295	Solid	09/08/21 13:37	09/14/21 10:18
880-6058-39	C-296	Solid	09/08/21 13:38	09/14/21 10:18
880-6058-40	C-297	Solid	09/08/21 13:39	09/14/21 10:18
880-6058-41	C-298	Solid	09/09/21 15:01	09/14/21 10:18
880-6058-42	C-299	Solid	09/09/21 15:02	09/14/21 10:18
880-6058-43	C-300	Solid	09/09/21 15:03	09/14/21 10:18
880-6058-44	C-301	Solid	09/09/21 15:04	09/14/21 10:18
880-6058-45	C-302	Solid	09/09/21 15:05	09/14/21 10:18
880-6058-46	C-303	Solid	09/09/21 15:06	09/14/21 10:18
880-6058-47	C-304	Solid	09/09/21 15:07	09/14/21 10:18
880-6058-48	C-305	Solid	09/09/21 15:08	09/14/21 10:18
880-6058-49	C-306	Solid	09/09/21 15:09	09/14/21 10:18
880-6058-50	C-307	Solid	09/09/21 15:10	09/14/21 10:18
880-6058-51	C-308	Solid	09/09/21 15:11	09/14/21 10:18
880-6058-52	C-309	Solid	09/09/21 15:12	09/14/21 10:18
880-6058-53	C-310	Solid	09/09/21 15:13	09/14/21 10:18
880-6058-54	C-311	Solid	09/09/21 15:14	09/14/21 10:18

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 880-6058-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6058-55	C-312	Solid	09/09/21 15:15	09/14/21 10:18
880-6058-56	C-313	Solid	09/09/21 15:07	09/14/21 10:18
880-6058-57	C-314	Solid	09/09/21 15:17	09/14/21 10:18
880-6058-58	C-315	Solid	09/09/21 15:18	09/14/21 10:18
880-6058-59	C-316	Solid	09/09/21 15:19	09/14/21 10:18
880-6058-60	C-317	Solid	09/09/21 15:20	09/14/21 10:18
880-6058-61	C-318	Solid	09/09/21 15:21	09/14/21 10:18
880-6058-62	C-319	Solid	09/09/21 15:22	09/14/21 10:18
880-6058-63	C-320	Solid	09/09/21 15:23	09/14/21 10:18
880-6058-64	C-321	Solid	09/09/21 15:24	09/14/21 10:18
880-6058-65	C-322	Solid	09/09/21 15:24	09/14/21 10:18

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No. 2184

Marson & Associates, Inc.
 Environmental Consultants

 507 N Warrenfield Ste 202
 Midland TX 79701
 432 687 0901

CHAIN-OF-CUSTODY

Data Reported to

 DATE 8/14/2021 PAGE 4 OF 5
 PO# 880-6058 LAB WORK ORDER#
 PROJECT LOCATION OR NAME PAVIMIE 1ST
 LAI PROJECT # 21-0105-02 COLLECTOR DS4

TIME ZONE Time zone/State	Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION					ANALYSES	FIELD NOTES	
							S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐			ICE
	C-303		9/9/21	1506	S	1								
	C-304			1507										
	C-305			1508										
	C-306			1509										
	C-307			1510										
	C-308			1511										
	C-309			1512										
	C-310			1513										
	C-311			1514										
	C-312			1515										
	C-313			1516										
	C-314			1517										
	C-315			1518										
	C-316			1519										
	C-317			1520										
TOTAL	15													

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
<i>[Signature]</i>	9/14/21 10/18	<i>[Signature]</i>	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
LABORATORY	X4000		

TURN AROUND TIME	LABORATORY USE ONLY
NORMAL ☒	RECEIVING TEMP <u>0/6.5</u> THERM# <u>128</u>
1 DAY ☐	CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☒ NOT USED
2 DAY ☐	CARRIER BILL #
OTHER ☐	

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CHAIN-OF-CUSTODY

507 N Mareinfeld Ste 202
Midland TX 79701
432 687 0901

PAGE 5 OF 5

LAB WORK ORDER# 980-10058

COLLECTOR DSG

DS4

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State

Field	Lab #	Date	Time	Matrix
Sample I D				

of Containers

HCl	PRESERVATION
HNO ₃	
H ₂ SO ₄ ↓ NaOH ↓	
ICE	
UNPRESSERVED	

ANALYSES
TEXT & MTBF
GRAPH

ANALYSES	
BTEX	MTBE
TRPH 418 T	TPH 1005
GASOLINE MOD 8015	TPH 1006
DIESEL - MOD 8015	
OIL - MOD 8015	
VOC 8260	
SVOC 8270	
8081 PESTICIDES	PAH 8270
8082 PCBs	8151 HERBICIDES
TCLP METALS (RCRA)	HOLDPAH
TCLP PEST	HERB
TCLP METALS (RCRA)	Semi-VOC
LEAD - TOTAL	DW 200.8
RCl	TOX
TDS	TSS
pH	% MOISTURE
EXPLOSIVES	HEXAVALENT CHROMIUM
CHLORIDE	PECHLORATE
	ANIONS
	ALKALINITY
FIELD NO.	

FIELD NOTES

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-6058-1

SDG Number: 21-0105-02

Login Number: 6058

List Number: 1

Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-6278-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
9/29/2021 4:54:00 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-6278-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Midland

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Job ID: 880-6278-1**Laboratory: Eurofins Xenco, Midland****Narrative****Job Narrative
880-6278-1****Comments**

No additional comments.

Receipt

The samples were received on 9/20/2021 12:58 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -4.9° C.

GC VOA

Method 8021B: 1,4-Difluorobenzene recovery for the following samples were outside the upper control limit: C-363 (880-6278-41), C-364 (880-6278-42), C-365 (880-6278-43), C-366 (880-6278-44), C-367 (880-6278-45), C-368 (880-6278-46), C-369 (880-6278-47), C-370 (880-6278-48), C-371 (880-6278-49), C-372 (880-6278-50), C-373 (880-6278-51), C-374 (880-6278-52), C-375 (880-6278-53), C-376 (880-6278-54), C-377 (880-6278-55), C-378 (880-6278-56), C-379 (880-6278-57), C-380 (880-6278-58), C-381 (880-6278-59), C-382 (880-6278-60), C-383 (880-6278-61), C-384 (880-6278-62), C-385 (880-6278-63), C-386 (880-6278-64), C-387 (880-6278-65), C-388 (880-6278-66), C-389 (880-6278-67), C-390 (880-6278-68), C-391 (880-6278-69), C-392 (880-6278-70), (CCV 880-8163/2), (CCV 880-8163/20), (CCV 880-8163/33), (LCS 880-8137/1-A), (LCS 880-8138/1-A), (LCSD 880-8137/2-A), (LCSD 880-8138/2-A), (MB 880-8137/5-A), (MB 880-8138/5-A), (880-6278-A-41-A MS), (880-6278-A-41-B MSD), (880-6278-A-61-A MS) and (880-6278-A-61-B MSD). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8102 and analytical batch 880-8212 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8241 and analytical batch 880-8207 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-344 (880-6278-22). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8135 and analytical batch 880-8145 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-6278-A-1-A MS). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-464 (880-6278-142). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-6278-A-121-H MS). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-363 (880-6278-41), C-364 (880-6278-42), C-365 (880-6278-43), C-366 (880-6278-44), C-367 (880-6278-45), C-368 (880-6278-46), C-369 (880-6278-47), C-370 (880-6278-48), C-371 (880-6278-49), C-372 (880-6278-50), C-373 (880-6278-51), C-374 (880-6278-52), C-375 (880-6278-53), C-376 (880-6278-54), C-377 (880-6278-55), C-378 (880-6278-56), C-379 (880-6278-57), C-380 (880-6278-58), C-381 (880-6278-59), C-382 (880-6278-60), C-383 (880-6278-61), C-384 (880-6278-62), C-385 (880-6278-63), C-386 (880-6278-64), C-387 (880-6278-65), C-388 (880-6278-66), C-389 (880-6278-67), C-390 (880-6278-68), C-391 (880-6278-69), C-392 (880-6278-70), (LCS 880-8137/1-A), (LCS 880-8138/1-A), (LCSD 880-8137/2-A), (LCSD 880-8138/2-A), (MB 880-8137/5-A), (MB 880-8138/5-A), (880-6278-A-41-A MS), (880-6278-A-41-B MSD), (880-6278-A-61-A MS) and (880-6278-A-61-B MSD). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Job ID: 880-6278-1 (Continued)

Laboratory: Eurofins Xenco, Midland (Continued)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8139 and analytical batch 880-8218 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-403 (880-6278-81), C-405 (880-6278-83), C-406 (880-6278-84), C-413 (880-6278-91), C-419 (880-6278-97) and C-422 (880-6278-100). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8251 and analytical batch 880-8299 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8141 and analytical batch 880-8326 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-441 (880-6278-119). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8359 and analytical batch 880-8365 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-8199 and analytical batch 880-8236 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-323

Lab Sample ID: 880-6278-1

Date Collected: 09/14/21 11:05

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		09/20/21 13:45	09/21/21 05:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 05:09	1
Ethylbenzene	0.00330		0.00199	mg/Kg		09/20/21 13:45	09/21/21 05:09	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 05:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 05:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 05:09	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/20/21 13:45	09/21/21 05:09	1
1,4-Difluorobenzene (Surr)	125		70 - 130	09/20/21 13:45	09/21/21 05:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/21/21 23:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/21/21 23:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/21/21 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	09/21/21 10:10	09/21/21 23:02	1
o-Terphenyl (Surr)	107		70 - 130	09/21/21 10:10	09/21/21 23:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	922		4.96	mg/Kg			09/24/21 04:16	1

Client Sample ID: C-324

Lab Sample ID: 880-6278-2

Date Collected: 09/14/21 11:10

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:45	09/21/21 05:30	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:45	09/21/21 05:30	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:45	09/21/21 05:30	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/20/21 13:45	09/21/21 05:30	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:45	09/21/21 05:30	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/20/21 13:45	09/21/21 05:30	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/20/21 13:45	09/21/21 05:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/20/21 13:45	09/21/21 05:30	1
1,4-Difluorobenzene (Surr)	80		70 - 130	09/20/21 13:45	09/21/21 05:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-324

Lab Sample ID: 880-6278-2

Date Collected: 09/14/21 11:10

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 00:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 00:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			09/21/21 10:10	09/22/21 00:05	1
o-Terphenyl (Surr)	104		70 - 130			09/21/21 10:10	09/22/21 00:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	491		5.02	mg/Kg			09/24/21 04:21	1

Client Sample ID: C-325

Lab Sample ID: 880-6278-3

Date Collected: 09/14/21 11:15

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 05:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 05:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 05:50	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 05:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 05:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 05:50	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 05:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			09/20/21 13:45	09/21/21 05:50	1
1,4-Difluorobenzene (Surr)	78		70 - 130			09/20/21 13:45	09/21/21 05:50	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 00:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 00:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 00:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			09/21/21 10:10	09/22/21 00:29	1
o-Terphenyl (Surr)	120		70 - 130			09/21/21 10:10	09/22/21 00:29	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-325

Lab Sample ID: 880-6278-3

Date Collected: 09/14/21 11:15

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	434		4.98	mg/Kg			09/24/21 04:27	1

Client Sample ID: C-326

Lab Sample ID: 880-6278-4

Date Collected: 09/14/21 11:20

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 06:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 06:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 06:11	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 06:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 06:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 06:11	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 06:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/20/21 13:45	09/21/21 06:11	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/20/21 13:45	09/21/21 06:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 00:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 00:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	09/21/21 10:10	09/22/21 00:55	1
o-Terphenyl (Surr)	103		70 - 130	09/21/21 10:10	09/22/21 00:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540		24.8	mg/Kg			09/24/21 13:06	5

Client Sample ID: C-327

Lab Sample ID: 880-6278-5

Date Collected: 09/14/21 11:25

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 06:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 06:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 06:31	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 13:45	09/21/21 06:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 06:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 13:45	09/21/21 06:31	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-327

Lab Sample ID: 880-6278-5

Date Collected: 09/14/21 11:25

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 13:45	09/21/21 06:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/20/21 13:45	09/21/21 06:31	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/20/21 13:45	09/21/21 06:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 01:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 01:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 01:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			09/21/21 10:10	09/22/21 01:16	1
o-Terphenyl (Surr)	104		70 - 130			09/21/21 10:10	09/22/21 01:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	363		4.95	mg/Kg			09/24/21 05:17	1

Client Sample ID: C-328

Lab Sample ID: 880-6278-6

Date Collected: 09/14/21 11:27

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:45	09/21/21 06:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:45	09/21/21 06:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:45	09/21/21 06:52	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/20/21 13:45	09/21/21 06:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:45	09/21/21 06:52	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/20/21 13:45	09/21/21 06:52	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/20/21 13:45	09/21/21 06:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	09/20/21 13:45	09/21/21 06:52	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/20/21 13:45	09/21/21 06:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 01:37	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-328

Lab Sample ID: 880-6278-6

Date Collected: 09/14/21 11:27

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 01:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			09/21/21 10:10	09/22/21 01:37	1
o-Terphenyl (Surr)	115		70 - 130			09/21/21 10:10	09/22/21 01:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		5.05	mg/Kg			09/24/21 05:34	1

Client Sample ID: C-329

Lab Sample ID: 880-6278-7

Date Collected: 09/14/21 11:32

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 07:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 07:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 07:13	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 07:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 07:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 07:13	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 07:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			09/20/21 13:45	09/21/21 07:13	1
1,4-Difluorobenzene (Surr)	83		70 - 130			09/20/21 13:45	09/21/21 07:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 01:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 01:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 01:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/21/21 10:10	09/22/21 01:58	1
o-Terphenyl (Surr)	100		70 - 130			09/21/21 10:10	09/22/21 01:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		4.97	mg/Kg			09/24/21 05:40	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-330

Lab Sample ID: 880-6278-8

Date Collected: 09/14/21 11:36

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 07:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 07:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 07:34	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 13:45	09/21/21 07:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 07:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 13:45	09/21/21 07:34	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 13:45	09/21/21 07:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/20/21 13:45	09/21/21 07:34	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/20/21 13:45	09/21/21 07:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 02:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 02:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	09/21/21 10:10	09/22/21 02:19	1
o-Terphenyl (Surr)	98		70 - 130	09/21/21 10:10	09/22/21 02:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		4.99	mg/Kg			09/24/21 05:45	1

Client Sample ID: C-331

Lab Sample ID: 880-6278-9

Date Collected: 09/14/21 11:40

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 07:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 07:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 07:54	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 13:45	09/21/21 07:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 07:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 13:45	09/21/21 07:54	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 13:45	09/21/21 07:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	09/20/21 13:45	09/21/21 07:54	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/20/21 13:45	09/21/21 07:54	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-331

Lab Sample ID: 880-6278-9

Date Collected: 09/14/21 11:40

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 02:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 02:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 02:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			09/21/21 10:10	09/22/21 02:40	1
o-Terphenyl (Surr)	115		70 - 130			09/21/21 10:10	09/22/21 02:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2600		25.0	mg/Kg			09/24/21 05:51	5

Client Sample ID: C-332

Lab Sample ID: 880-6278-10

Date Collected: 09/14/21 13:05

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 08:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 08:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 08:15	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 08:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 08:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 08:15	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 08:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			09/20/21 13:45	09/21/21 08:15	1
1,4-Difluorobenzene (Surr)	88		70 - 130			09/20/21 13:45	09/21/21 08:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 03:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 03:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 03:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			09/21/21 10:10	09/22/21 03:01	1
o-Terphenyl (Surr)	115		70 - 130			09/21/21 10:10	09/22/21 03:01	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-332

Lab Sample ID: 880-6278-10

Date Collected: 09/14/21 13:05

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		5.00	mg/Kg			09/24/21 06:08	1

Client Sample ID: C-333

Lab Sample ID: 880-6278-11

Date Collected: 09/14/21 13:10

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 09:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 09:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 09:39	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 09:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 09:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 09:39	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 09:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	09/20/21 13:45	09/21/21 09:39	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/20/21 13:45	09/21/21 09:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 03:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 03:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130	09/21/21 10:10	09/22/21 03:43	1
o-Terphenyl (Surr)	121		70 - 130	09/21/21 10:10	09/22/21 03:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		4.95	mg/Kg			09/24/21 06:13	1

Client Sample ID: C-334

Lab Sample ID: 880-6278-12

Date Collected: 09/14/21 13:15

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 09:59	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 09:59	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 09:59	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 13:45	09/21/21 09:59	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 09:59	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 13:45	09/21/21 09:59	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-334

Lab Sample ID: 880-6278-12

Date Collected: 09/14/21 13:15

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 13:45	09/21/21 09:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/20/21 13:45	09/21/21 09:59	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/20/21 13:45	09/21/21 09:59	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 04:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 04:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 04:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			09/21/21 10:10	09/22/21 04:04	1
o-Terphenyl (Surr)	113		70 - 130			09/21/21 10:10	09/22/21 04:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		5.03	mg/Kg			09/24/21 06:19	1

Client Sample ID: C-335

Lab Sample ID: 880-6278-13

Date Collected: 09/14/21 13:20

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:45	09/21/21 10:20	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:45	09/21/21 10:20	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:45	09/21/21 10:20	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/20/21 13:45	09/21/21 10:20	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:45	09/21/21 10:20	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/20/21 13:45	09/21/21 10:20	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/20/21 13:45	09/21/21 10:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/20/21 13:45	09/21/21 10:20	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/20/21 13:45	09/21/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 04:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-335

Lab Sample ID: 880-6278-13

Date Collected: 09/14/21 13:20

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 04:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:10	09/22/21 04:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/21/21 10:10	09/22/21 04:25	1
o-Terphenyl (Surr)	100		70 - 130			09/21/21 10:10	09/22/21 04:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		4.99	mg/Kg			09/24/21 06:25	1

Client Sample ID: C-336

Lab Sample ID: 880-6278-14

Date Collected: 09/14/21 13:25

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 10:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 10:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 10:41	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/20/21 13:45	09/21/21 10:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 10:41	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/20/21 13:45	09/21/21 10:41	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/20/21 13:45	09/21/21 10:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			09/20/21 13:45	09/21/21 10:41	1
1,4-Difluorobenzene (Surr)	99		70 - 130			09/20/21 13:45	09/21/21 10:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 04:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 04:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 04:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			09/21/21 10:10	09/22/21 04:46	1
o-Terphenyl (Surr)	117		70 - 130			09/21/21 10:10	09/22/21 04:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		4.95	mg/Kg			09/24/21 06:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-337

Lab Sample ID: 880-6278-15

Date Collected: 09/14/21 13:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:45	09/21/21 11:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:45	09/21/21 11:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:45	09/21/21 11:02	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/20/21 13:45	09/21/21 11:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:45	09/21/21 11:02	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/20/21 13:45	09/21/21 11:02	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/20/21 13:45	09/21/21 11:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/20/21 13:45	09/21/21 11:02	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/20/21 13:45	09/21/21 11:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 05:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 05:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 05:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	09/21/21 10:10	09/22/21 05:07	1
o-Terphenyl (Surr)	98		70 - 130	09/21/21 10:10	09/22/21 05:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	273		5.00	mg/Kg			09/24/21 06:36	1

Client Sample ID: C-338

Lab Sample ID: 880-6278-16

Date Collected: 09/14/21 15:24

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 11:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 11:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 11:22	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 11:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 11:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 11:22	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 11:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/20/21 13:45	09/21/21 11:22	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/20/21 13:45	09/21/21 11:22	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-338

Lab Sample ID: 880-6278-16

Date Collected: 09/14/21 15:24

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 05:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 05:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 05:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/21/21 10:10	09/22/21 05:28	1
o-Terphenyl (Surr)	101		70 - 130			09/21/21 10:10	09/22/21 05:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.0		4.97	mg/Kg			09/24/21 06:53	1

Client Sample ID: C-339

Lab Sample ID: 880-6278-17

Date Collected: 09/14/21 15:36

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 11:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 11:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 11:43	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 13:45	09/21/21 11:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 11:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 13:45	09/21/21 11:43	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 13:45	09/21/21 11:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			09/20/21 13:45	09/21/21 11:43	1
1,4-Difluorobenzene (Surr)	100		70 - 130			09/20/21 13:45	09/21/21 11:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 05:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 05:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 05:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			09/21/21 10:10	09/22/21 05:49	1
o-Terphenyl (Surr)	120		70 - 130			09/21/21 10:10	09/22/21 05:49	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-339

Lab Sample ID: 880-6278-17

Date Collected: 09/14/21 15:36

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.8		4.95	mg/Kg			09/24/21 06:58	1

Client Sample ID: C-340

Lab Sample ID: 880-6278-18

Date Collected: 09/14/21 15:48

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 12:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 12:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 12:04	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 12:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:45	09/21/21 12:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 12:04	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:45	09/21/21 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/20/21 13:45	09/21/21 12:04	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/20/21 13:45	09/21/21 12:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 06:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 06:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 06:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	09/21/21 10:10	09/22/21 06:10	1
o-Terphenyl (Surr)	110		70 - 130	09/21/21 10:10	09/22/21 06:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	439		5.04	mg/Kg			09/24/21 07:15	1

Client Sample ID: C-341

Lab Sample ID: 880-6278-19

Date Collected: 09/15/21 09:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 12:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 12:25	1
Ethylbenzene	0.00229		0.00200	mg/Kg		09/20/21 13:45	09/21/21 12:25	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 12:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 12:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 12:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-341

Lab Sample ID: 880-6278-19

Date Collected: 09/15/21 09:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/20/21 13:45	09/21/21 12:25	1
1,4-Difluorobenzene (Surr)	119		70 - 130	09/20/21 13:45	09/21/21 12:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 06:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 06:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:10	09/22/21 06:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130			09/21/21 10:10	09/22/21 06:31	1
o-Terphenyl (Surr)	125		70 - 130			09/21/21 10:10	09/22/21 06:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.2		4.99	mg/Kg			09/24/21 07:21	1

Client Sample ID: C-342

Lab Sample ID: 880-6278-20

Date Collected: 09/15/21 09:34

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 12:45	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 12:45	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 12:45	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 13:45	09/21/21 12:45	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:45	09/21/21 12:45	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 13:45	09/21/21 12:45	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 13:45	09/21/21 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/20/21 13:45	09/21/21 12:45	1
1,4-Difluorobenzene (Surr)	91		70 - 130	09/20/21 13:45	09/21/21 12:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 06:52	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-342

Lab Sample ID: 880-6278-20

Date Collected: 09/15/21 09:34

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 06:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/22/21 06:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/21/21 10:10	09/22/21 06:52	1
o-Terphenyl (Surr)	105		70 - 130			09/21/21 10:10	09/22/21 06:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	976		5.02	mg/Kg			09/24/21 07:26	1

Client Sample ID: C-343

Lab Sample ID: 880-6278-21

Date Collected: 09/15/21 09:38

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:49	09/22/21 08:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:49	09/22/21 08:33	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:49	09/22/21 08:33	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/20/21 13:49	09/22/21 08:33	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:49	09/22/21 08:33	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/20/21 13:49	09/22/21 08:33	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/20/21 13:49	09/22/21 08:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			09/20/21 13:49	09/22/21 08:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130			09/20/21 13:49	09/22/21 08:33	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 13:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 13:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 13:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/21/21 10:24	09/25/21 13:00	1
o-Terphenyl (Surr)	108		70 - 130			09/21/21 10:24	09/25/21 13:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	298		4.98	mg/Kg			09/24/21 07:32	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-344

Lab Sample ID: 880-6278-22

Date Collected: 09/15/21 09:42

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 08:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 08:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 08:53	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 08:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 08:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 08:53	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 08:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/20/21 13:49	09/22/21 08:53	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	09/20/21 13:49	09/22/21 08:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 14:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	09/21/21 10:24	09/25/21 14:05	1
o-Terphenyl (Surr)	104		70 - 130	09/21/21 10:24	09/25/21 14:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		4.95	mg/Kg			09/24/21 07:37	1

Client Sample ID: C-345

Lab Sample ID: 880-6278-23

Date Collected: 09/15/21 09:46

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 09:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 09:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 09:14	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 09:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 09:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 09:14	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 09:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/20/21 13:49	09/22/21 09:14	1
1,4-Difluorobenzene (Surr)	71		70 - 130	09/20/21 13:49	09/22/21 09:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-345

Lab Sample ID: 880-6278-23

Date Collected: 09/15/21 09:46

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 14:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 14:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 14:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			09/21/21 10:24	09/25/21 14:27	1
o-Terphenyl (Surr)	103		70 - 130			09/21/21 10:24	09/25/21 14:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		4.95	mg/Kg			09/24/21 07:43	1

Client Sample ID: C-346

Lab Sample ID: 880-6278-24

Date Collected: 09/15/21 09:50

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 09:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 09:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 09:35	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 09:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 09:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 09:35	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 09:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/20/21 13:49	09/22/21 09:35	1
1,4-Difluorobenzene (Surr)	118		70 - 130			09/20/21 13:49	09/22/21 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 14:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 14:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 14:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			09/21/21 10:24	09/25/21 14:49	1
o-Terphenyl (Surr)	103		70 - 130			09/21/21 10:24	09/25/21 14:49	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-346

Lab Sample ID: 880-6278-24

Date Collected: 09/15/21 09:50

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	762		5.05	mg/Kg			09/24/21 07:49	1

Client Sample ID: C-347

Lab Sample ID: 880-6278-25

Date Collected: 09/15/21 09:54

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 09:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 09:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 09:56	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 09:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 09:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 09:56	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 09:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/20/21 13:49	09/22/21 09:56	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/20/21 13:49	09/22/21 09:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 15:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 15:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	09/21/21 10:24	09/25/21 15:11	1
o-Terphenyl (Surr)	108		70 - 130	09/21/21 10:24	09/25/21 15:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	981		4.99	mg/Kg			09/23/21 22:33	1

Client Sample ID: C-348

Lab Sample ID: 880-6278-26

Date Collected: 09/15/21 09:58

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 13:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 13:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 13:04	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/20/21 13:49	09/22/21 13:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 13:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/20/21 13:49	09/22/21 13:04	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-348

Lab Sample ID: 880-6278-26

Date Collected: 09/15/21 09:58

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/20/21 13:49	09/22/21 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/20/21 13:49	09/22/21 13:04	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/20/21 13:49	09/22/21 13:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method 8160-HM Diesel Range Organics (DRO) (C6-C36)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 15:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 15:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 15:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/21/21 10:24	09/25/21 15:32	1
o-Terphenyl (Surr)	99		70 - 130			09/21/21 10:24	09/25/21 15:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.0		4.98	mg/Kg			09/23/21 22:48	1

Client Sample ID: C-349

Lab Sample ID: 880-6278-27

Date Collected: 09/15/21 10:02

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 13:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 13:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 13:24	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 13:49	09/22/21 13:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 13:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 13:49	09/22/21 13:24	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 13:49	09/22/21 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	09/20/21 13:49	09/22/21 13:24	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/20/21 13:49	09/22/21 13:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 15:55	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-349

Lab Sample ID: 880-6278-27

Date Collected: 09/15/21 10:02

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 15:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 15:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			09/21/21 10:24	09/25/21 15:55	1
o-Terphenyl (Surr)	96		70 - 130			09/21/21 10:24	09/25/21 15:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.8		4.95	mg/Kg			09/23/21 22:53	1

Client Sample ID: C-350

Lab Sample ID: 880-6278-28

Date Collected: 09/15/21 10:06

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 13:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 13:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 13:45	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:49	09/22/21 13:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 13:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:49	09/22/21 13:45	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:49	09/22/21 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			09/20/21 13:49	09/22/21 13:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130			09/20/21 13:49	09/22/21 13:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 16:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 16:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 16:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			09/21/21 10:24	09/25/21 16:17	1
o-Terphenyl (Surr)	97		70 - 130			09/21/21 10:24	09/25/21 16:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.1		4.97	mg/Kg			09/23/21 22:58	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-351

Lab Sample ID: 880-6278-29

Date Collected: 09/15/21 10:10

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:49	09/22/21 14:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:49	09/22/21 14:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:49	09/22/21 14:06	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/20/21 13:49	09/22/21 14:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:49	09/22/21 14:06	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/20/21 13:49	09/22/21 14:06	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/20/21 13:49	09/22/21 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/20/21 13:49	09/22/21 14:06	1
1,4-Difluorobenzene (Surr)	87		70 - 130	09/20/21 13:49	09/22/21 14:06	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 16:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 16:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130	09/21/21 10:24	09/25/21 16:39	1
o-Terphenyl (Surr)	83		70 - 130	09/21/21 10:24	09/25/21 16:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		4.99	mg/Kg			09/23/21 23:03	1

Client Sample ID: C-352

Lab Sample ID: 880-6278-30

Date Collected: 09/15/21 10:14

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 14:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 14:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 14:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 14:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 14:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 14:27	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	09/20/21 13:49	09/22/21 14:27	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/20/21 13:49	09/22/21 14:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-352

Lab Sample ID: 880-6278-30

Date Collected: 09/15/21 10:14

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 17:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 17:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130			09/21/21 10:24	09/25/21 17:02	1
o-Terphenyl (Surr)	72		70 - 130			09/21/21 10:24	09/25/21 17:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.4		5.05	mg/Kg			09/23/21 23:17	1

Client Sample ID: C-353

Lab Sample ID: 880-6278-31

Date Collected: 09/15/21 10:18

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 14:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 14:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 14:48	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 13:49	09/22/21 14:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 14:48	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 13:49	09/22/21 14:48	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 13:49	09/22/21 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			09/20/21 13:49	09/22/21 14:48	1
1,4-Difluorobenzene (Surr)	118		70 - 130			09/20/21 13:49	09/22/21 14:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 17:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 17:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 17:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			09/21/21 10:24	09/25/21 17:46	1
o-Terphenyl (Surr)	87		70 - 130			09/21/21 10:24	09/25/21 17:46	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-353

Lab Sample ID: 880-6278-31

Date Collected: 09/15/21 10:18

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.4		4.97	mg/Kg			09/23/21 23:22	1

Client Sample ID: C-354

Lab Sample ID: 880-6278-32

Date Collected: 09/15/21 10:22

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 15:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 15:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 15:08	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 15:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:49	09/22/21 15:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 15:08	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:49	09/22/21 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/20/21 13:49	09/22/21 15:08	1
1,4-Difluorobenzene (Surr)	112		70 - 130	09/20/21 13:49	09/22/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 18:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 18:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	09/21/21 10:24	09/25/21 18:09	1
o-Terphenyl (Surr)	101		70 - 130	09/21/21 10:24	09/25/21 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.3		4.95	mg/Kg			09/23/21 23:27	1

Client Sample ID: C-355

Lab Sample ID: 880-6278-33

Date Collected: 09/15/21 10:26

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 15:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 15:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 15:29	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/20/21 13:49	09/22/21 15:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 15:29	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/20/21 13:49	09/22/21 15:29	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-355

Lab Sample ID: 880-6278-33

Date Collected: 09/15/21 10:26

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/20/21 13:49	09/22/21 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/20/21 13:49	09/22/21 15:29	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/20/21 13:49	09/22/21 15:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 18:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 18:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:24	09/25/21 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			09/21/21 10:24	09/25/21 18:31	1
o-Terphenyl (Surr)	90		70 - 130			09/21/21 10:24	09/25/21 18:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		4.98	mg/Kg			09/23/21 23:32	1

Client Sample ID: C-356

Lab Sample ID: 880-6278-34

Date Collected: 09/15/21 10:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:49	09/22/21 15:50	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:49	09/22/21 15:50	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:49	09/22/21 15:50	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/20/21 13:49	09/22/21 15:50	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:49	09/22/21 15:50	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/20/21 13:49	09/22/21 15:50	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		09/20/21 13:49	09/22/21 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/20/21 13:49	09/22/21 15:50	1
1,4-Difluorobenzene (Surr)	116		70 - 130	09/20/21 13:49	09/22/21 15:50	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 18:53	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-356

Lab Sample ID: 880-6278-34

Date Collected: 09/15/21 10:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 18:53	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 18:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			09/21/21 10:24	09/25/21 18:53	1
o-Terphenyl (Surr)	95		70 - 130			09/21/21 10:24	09/25/21 18:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	216		5.00	mg/Kg			09/23/21 23:37	1

Client Sample ID: C-357

Lab Sample ID: 880-6278-35

Date Collected: 09/15/21 10:34

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:49	09/22/21 16:11	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:49	09/22/21 16:11	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:49	09/22/21 16:11	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/20/21 13:49	09/22/21 16:11	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:49	09/22/21 16:11	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/20/21 13:49	09/22/21 16:11	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		09/20/21 13:49	09/22/21 16:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			09/20/21 13:49	09/22/21 16:11	1
1,4-Difluorobenzene (Surr)	88		70 - 130			09/20/21 13:49	09/22/21 16:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 19:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 19:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 19:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			09/21/21 10:24	09/25/21 19:15	1
o-Terphenyl (Surr)	90		70 - 130			09/21/21 10:24	09/25/21 19:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		5.04	mg/Kg			09/23/21 23:42	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-358

Lab Sample ID: 880-6278-36

Date Collected: 09/15/21 10:38

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/22/21 09:52	09/24/21 04:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/22/21 09:52	09/24/21 04:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/22/21 09:52	09/24/21 04:00	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/22/21 09:52	09/24/21 04:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/22/21 09:52	09/24/21 04:00	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/22/21 09:52	09/24/21 04:00	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		09/22/21 09:52	09/24/21 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/22/21 09:52	09/24/21 04:00	1
1,4-Difluorobenzene (Surr)	120		70 - 130	09/22/21 09:52	09/24/21 04:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 19:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 19:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	09/21/21 10:24	09/25/21 19:38	1
o-Terphenyl (Surr)	81		70 - 130	09/21/21 10:24	09/25/21 19:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		4.98	mg/Kg			09/23/21 23:57	1

Client Sample ID: C-359

Lab Sample ID: 880-6278-37

Date Collected: 09/15/21 10:42

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 04:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 04:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 04:21	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/22/21 09:52	09/24/21 04:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 04:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/22/21 09:52	09/24/21 04:21	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/22/21 09:52	09/24/21 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/22/21 09:52	09/24/21 04:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/22/21 09:52	09/24/21 04:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-359

Lab Sample ID: 880-6278-37

Date Collected: 09/15/21 10:42

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 20:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 20:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 20:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			09/21/21 10:24	09/25/21 20:00	1
o-Terphenyl (Surr)	90		70 - 130			09/21/21 10:24	09/25/21 20:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	251		4.95	mg/Kg			09/24/21 00:02	1

Client Sample ID: C-360

Lab Sample ID: 880-6278-38

Date Collected: 09/15/21 10:46

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/22/21 09:52	09/24/21 04:41	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/22/21 09:52	09/24/21 04:41	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/22/21 09:52	09/24/21 04:41	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/22/21 09:52	09/24/21 04:41	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/22/21 09:52	09/24/21 04:41	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/22/21 09:52	09/24/21 04:41	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		09/22/21 09:52	09/24/21 04:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			09/22/21 09:52	09/24/21 04:41	1
1,4-Difluorobenzene (Surr)	80		70 - 130			09/22/21 09:52	09/24/21 04:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 20:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 20:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 20:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			09/21/21 10:24	09/25/21 20:22	1
o-Terphenyl (Surr)	90		70 - 130			09/21/21 10:24	09/25/21 20:22	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-360

Lab Sample ID: 880-6278-38

Date Collected: 09/15/21 10:46

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357		4.95	mg/Kg			09/24/21 00:17	1

Client Sample ID: C-361

Lab Sample ID: 880-6278-39

Date Collected: 09/15/21 10:50

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/22/21 09:52	09/24/21 05:02	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/22/21 09:52	09/24/21 05:02	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/22/21 09:52	09/24/21 05:02	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/22/21 09:52	09/24/21 05:02	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/22/21 09:52	09/24/21 05:02	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/22/21 09:52	09/24/21 05:02	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/22/21 09:52	09/24/21 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/22/21 09:52	09/24/21 05:02	1
1,4-Difluorobenzene (Surr)	83		70 - 130	09/22/21 09:52	09/24/21 05:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 20:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 20:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:24	09/25/21 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	09/21/21 10:24	09/25/21 20:45	1
o-Terphenyl (Surr)	83		70 - 130	09/21/21 10:24	09/25/21 20:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	664		5.02	mg/Kg			09/24/21 00:22	1

Client Sample ID: C-362

Lab Sample ID: 880-6278-40

Date Collected: 09/15/21 10:54

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/22/21 09:52	09/24/21 05:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/22/21 09:52	09/24/21 05:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/22/21 09:52	09/24/21 05:23	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/22/21 09:52	09/24/21 05:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/22/21 09:52	09/24/21 05:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/22/21 09:52	09/24/21 05:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-362

Lab Sample ID: 880-6278-40

Date Collected: 09/15/21 10:54

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/22/21 09:52	09/24/21 05:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/22/21 09:52	09/24/21 05:23	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/22/21 09:52	09/24/21 05:23	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method 8160-HM Diesel Range Organics (DRO) (C6-C36)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 21:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 21:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 21:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			09/21/21 10:24	09/25/21 21:07	1
o-Terphenyl (Surr)	82		70 - 130			09/21/21 10:24	09/25/21 21:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	442		4.97	mg/Kg			09/24/21 00:27	1

Client Sample ID: C-363

Lab Sample ID: 880-6278-41

Date Collected: 09/15/21 10:58

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		09/20/21 13:52	09/21/21 14:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 14:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 14:24	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 14:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 14:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 14:24	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/20/21 13:52	09/21/21 14:24	1
1,4-Difluorobenzene (Surr)	224	S1+	70 - 130	09/20/21 13:52	09/21/21 14:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/28/21 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:47	09/25/21 13:00	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-363

Lab Sample ID: 880-6278-41

Date Collected: 09/15/21 10:58

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:47	09/25/21 13:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:47	09/25/21 13:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130			09/21/21 10:47	09/25/21 13:00	1
o-Terphenyl (Surr)	130		70 - 130			09/21/21 10:47	09/25/21 13:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		4.98	mg/Kg			09/24/21 00:32	1

Client Sample ID: C-364

Lab Sample ID: 880-6278-42

Date Collected: 09/15/21 11:02

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 14:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 14:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 14:52	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/20/21 13:52	09/21/21 14:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 14:52	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/20/21 13:52	09/21/21 14:52	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/20/21 13:52	09/21/21 14:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			09/20/21 13:52	09/21/21 14:52	1
1,4-Difluorobenzene (Surr)	267	S1+	70 - 130			09/20/21 13:52	09/21/21 14:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/28/21 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:47	09/25/21 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:47	09/25/21 14:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:47	09/25/21 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/21/21 10:47	09/25/21 14:05	1
o-Terphenyl (Surr)	115		70 - 130			09/21/21 10:47	09/25/21 14:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	732		5.00	mg/Kg			09/24/21 00:37	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-365

Lab Sample ID: 880-6278-43

Date Collected: 09/15/21 11:06

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 15:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 15:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 15:18	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:52	09/21/21 15:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 15:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:52	09/21/21 15:18	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:52	09/21/21 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	09/20/21 13:52	09/21/21 15:18	1
1,4-Difluorobenzene (Surr)	288	S1+	70 - 130	09/20/21 13:52	09/21/21 15:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/28/21 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:47	09/25/21 14:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:47	09/25/21 14:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:47	09/25/21 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130	09/21/21 10:47	09/25/21 14:27	1
o-Terphenyl (Surr)	134	S1+	70 - 130	09/21/21 10:47	09/25/21 14:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		5.00	mg/Kg			09/24/21 00:42	1

Client Sample ID: C-366

Lab Sample ID: 880-6278-44

Date Collected: 09/15/21 11:10

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 15:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 15:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 15:45	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 15:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 15:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 15:45	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/20/21 13:52	09/21/21 15:45	1
1,4-Difluorobenzene (Surr)	272	S1+	70 - 130	09/20/21 13:52	09/21/21 15:45	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-366

Lab Sample ID: 880-6278-44

Date Collected: 09/15/21 11:10

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/28/21 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 10:47	09/25/21 14:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 10:47	09/25/21 14:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 10:47	09/25/21 14:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130			09/21/21 10:47	09/25/21 14:49	1
o-Terphenyl (Surr)	128		70 - 130			09/21/21 10:47	09/25/21 14:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		4.99	mg/Kg			09/24/21 00:47	1

Client Sample ID: C-367

Lab Sample ID: 880-6278-45

Date Collected: 09/15/21 11:14

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:52	09/21/21 16:11	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:52	09/21/21 16:11	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:52	09/21/21 16:11	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 13:52	09/21/21 16:11	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:52	09/21/21 16:11	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 13:52	09/21/21 16:11	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 13:52	09/21/21 16:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			09/20/21 13:52	09/21/21 16:11	1
1,4-Difluorobenzene (Surr)	253	S1+	70 - 130			09/20/21 13:52	09/21/21 16:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/28/21 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 10:47	09/25/21 15:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 10:47	09/25/21 15:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 10:47	09/25/21 15:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			09/21/21 10:47	09/25/21 15:11	1
o-Terphenyl (Surr)	120		70 - 130			09/21/21 10:47	09/25/21 15:11	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-367

Lab Sample ID: 880-6278-45

Date Collected: 09/15/21 11:14

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		5.00	mg/Kg			09/25/21 19:58	1

Client Sample ID: C-368

Lab Sample ID: 880-6278-46

Date Collected: 09/15/21 11:18

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 16:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 16:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 16:38	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 13:52	09/21/21 16:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 16:38	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 13:52	09/21/21 16:38	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 13:52	09/21/21 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/20/21 13:52	09/21/21 16:38	1
1,4-Difluorobenzene (Surr)	256	S1+	70 - 130	09/20/21 13:52	09/21/21 16:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/28/21 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:47	09/25/21 15:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:47	09/25/21 15:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:47	09/25/21 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	09/21/21 10:47	09/25/21 15:32	1
o-Terphenyl (Surr)	96		70 - 130	09/21/21 10:47	09/25/21 15:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		4.99	mg/Kg			09/25/21 20:15	1

Client Sample ID: C-369

Lab Sample ID: 880-6278-47

Date Collected: 09/15/21 11:22

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 17:05	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 17:05	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 17:05	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/20/21 13:52	09/21/21 17:05	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 17:05	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/20/21 13:52	09/21/21 17:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-369

Lab Sample ID: 880-6278-47

Date Collected: 09/15/21 11:22

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/20/21 13:52	09/21/21 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/20/21 13:52	09/21/21 17:05	1
1,4-Difluorobenzene (Surr)	297	S1+	70 - 130	09/20/21 13:52	09/21/21 17:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 14:03	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method 8160-H - Diesel Range Organics (DRO) (C6-C36)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 11:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 11:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 11:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/27/21 08:46	09/27/21 11:35	1
o-Terphenyl (Surr)	99		70 - 130			09/27/21 08:46	09/27/21 11:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.9		4.97	mg/Kg			09/25/21 20:21	1

Client Sample ID: C-370

Lab Sample ID: 880-6278-48

Date Collected: 09/15/21 11:26

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 17:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 17:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 17:31	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 17:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 17:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 17:31	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/20/21 13:52	09/21/21 17:31	1
1,4-Difluorobenzene (Surr)	308	S1+	70 - 130	09/20/21 13:52	09/21/21 17:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 14:03	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 12:38	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-370

Lab Sample ID: 880-6278-48

Date Collected: 09/15/21 11:26

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 12:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 12:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			09/27/21 08:46	09/27/21 12:38	1
o-Terphenyl (Surr)	103		70 - 130			09/27/21 08:46	09/27/21 12:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.3		4.95	mg/Kg			09/25/21 20:26	1

Client Sample ID: C-371

Lab Sample ID: 880-6278-49

Date Collected: 09/15/21 11:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 17:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 17:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 17:58	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 17:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 17:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 17:58	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			09/20/21 13:52	09/21/21 17:58	1
1,4-Difluorobenzene (Surr)	312	S1+	70 - 130			09/20/21 13:52	09/21/21 17:58	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 14:03	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 12:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 12:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130			09/27/21 08:46	09/27/21 12:59	1
o-Terphenyl (Surr)	104		70 - 130			09/27/21 08:46	09/27/21 12:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.7		5.04	mg/Kg			09/25/21 20:32	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-372

Lab Sample ID: 880-6278-50

Date Collected: 09/15/21 11:34

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 18:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 18:24	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 18:24	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/20/21 13:52	09/21/21 18:24	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 18:24	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/20/21 13:52	09/21/21 18:24	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		09/20/21 13:52	09/21/21 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/20/21 13:52	09/21/21 18:24	1
1,4-Difluorobenzene (Surr)	265	S1+	70 - 130	09/20/21 13:52	09/21/21 18:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 14:03	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 13:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 13:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	09/27/21 08:46	09/27/21 13:21	1
o-Terphenyl (Surr)	106		70 - 130	09/27/21 08:46	09/27/21 13:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.7		4.98	mg/Kg			09/25/21 20:49	1

Client Sample ID: C-373

Lab Sample ID: 880-6278-51

Date Collected: 09/15/21 11:38

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 20:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 20:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 20:11	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:52	09/21/21 20:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 20:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:52	09/21/21 20:11	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:52	09/21/21 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/20/21 13:52	09/21/21 20:11	1
1,4-Difluorobenzene (Surr)	235	S1+	70 - 130	09/20/21 13:52	09/21/21 20:11	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-373

Lab Sample ID: 880-6278-51

Date Collected: 09/15/21 11:38

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.3		50.0	mg/Kg			09/29/21 14:03	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 13:55	1
Diesel Range Organics (Over C10-C28)	60.3		49.8	mg/Kg		09/27/21 08:46	09/27/21 13:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			09/27/21 08:46	09/27/21 13:55	1
o-Terphenyl (Surr)	0.09	S1-	70 - 130			09/27/21 08:46	09/27/21 13:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		4.95	mg/Kg			09/25/21 20:54	1

Client Sample ID: C-374

Lab Sample ID: 880-6278-52

Date Collected: 09/15/21 11:42

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 20:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 20:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 20:38	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 13:52	09/21/21 20:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 20:38	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 13:52	09/21/21 20:38	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 13:52	09/21/21 20:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			09/20/21 13:52	09/21/21 20:38	1
1,4-Difluorobenzene (Surr)	302	S1+	70 - 130			09/20/21 13:52	09/21/21 20:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 14:03	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 14:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 14:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/27/21 08:46	09/27/21 14:17	1
o-Terphenyl (Surr)	104		70 - 130			09/27/21 08:46	09/27/21 14:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-374

Lab Sample ID: 880-6278-52

Date Collected: 09/15/21 11:42

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.8		4.95	mg/Kg			09/25/21 21:00	1

Client Sample ID: C-375

Lab Sample ID: 880-6278-53

Date Collected: 09/15/21 11:46

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 21:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 21:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 21:04	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 13:52	09/21/21 21:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 21:04	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 13:52	09/21/21 21:04	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 13:52	09/21/21 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/20/21 13:52	09/21/21 21:04	1
1,4-Difluorobenzene (Surr)	254	S1+	70 - 130	09/20/21 13:52	09/21/21 21:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 14:03	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 14:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 14:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	09/27/21 08:46	09/27/21 14:39	1
o-Terphenyl (Surr)	82		70 - 130	09/27/21 08:46	09/27/21 14:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.9		5.05	mg/Kg			09/25/21 21:05	1

Client Sample ID: C-376

Lab Sample ID: 880-6278-54

Date Collected: 09/15/21 11:50

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:52	09/21/21 21:32	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:52	09/21/21 21:32	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:52	09/21/21 21:32	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/20/21 13:52	09/21/21 21:32	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:52	09/21/21 21:32	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/20/21 13:52	09/21/21 21:32	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-376

Lab Sample ID: 880-6278-54

Date Collected: 09/15/21 11:50

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/20/21 13:52	09/21/21 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/20/21 13:52	09/21/21 21:32	1
1,4-Difluorobenzene (Surr)	297	S1+	70 - 130	09/20/21 13:52	09/21/21 21:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 14:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method 8160-HM Diesel Range Organics (DRO) (C6-C36)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 11:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 11:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 11:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			09/27/21 08:53	09/27/21 11:35	1
o-Terphenyl (Surr)	96		70 - 130			09/27/21 08:53	09/27/21 11:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	328		4.98	mg/Kg			09/25/21 21:11	1

Client Sample ID: C-377

Lab Sample ID: 880-6278-55

Date Collected: 09/15/21 11:54

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 21:58	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 21:58	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 21:58	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/20/21 13:52	09/21/21 21:58	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:52	09/21/21 21:58	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/20/21 13:52	09/21/21 21:58	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/20/21 13:52	09/21/21 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/20/21 13:52	09/21/21 21:58	1
1,4-Difluorobenzene (Surr)	291	S1+	70 - 130	09/20/21 13:52	09/21/21 21:58	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 14:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 12:38	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-377

Lab Sample ID: 880-6278-55

Date Collected: 09/15/21 11:54

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 12:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 12:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			09/27/21 08:53	09/27/21 12:38	1
o-Terphenyl (Surr)	125		70 - 130			09/27/21 08:53	09/27/21 12:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	191		5.00	mg/Kg			09/25/21 21:17	1

Client Sample ID: C-378

Lab Sample ID: 880-6278-56

Date Collected: 09/15/21 11:58

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 22:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 22:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 22:25	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 22:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:52	09/21/21 22:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 22:25	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:52	09/21/21 22:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			09/20/21 13:52	09/21/21 22:25	1
1,4-Difluorobenzene (Surr)	306	S1+	70 - 130			09/20/21 13:52	09/21/21 22:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 14:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 12:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 12:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			09/27/21 08:53	09/27/21 12:59	1
o-Terphenyl (Surr)	109		70 - 130			09/27/21 08:53	09/27/21 12:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		4.96	mg/Kg			09/25/21 21:33	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-379

Lab Sample ID: 880-6278-57

Date Collected: 09/15/21 12:02

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:52	09/21/21 22:51	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:52	09/21/21 22:51	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:52	09/21/21 22:51	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 13:52	09/21/21 22:51	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:52	09/21/21 22:51	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 13:52	09/21/21 22:51	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 13:52	09/21/21 22:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	09/20/21 13:52	09/21/21 22:51	1
1,4-Difluorobenzene (Surr)	308	S1+	70 - 130	09/20/21 13:52	09/21/21 22:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 14:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 13:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 13:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	09/27/21 08:53	09/27/21 13:21	1
o-Terphenyl (Surr)	109		70 - 130	09/27/21 08:53	09/27/21 13:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		4.97	mg/Kg			09/25/21 21:39	1

Client Sample ID: C-380

Lab Sample ID: 880-6278-58

Date Collected: 09/15/21 12:06

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 23:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 23:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 23:17	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 13:52	09/21/21 23:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 23:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 13:52	09/21/21 23:17	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 13:52	09/21/21 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/20/21 13:52	09/21/21 23:17	1
1,4-Difluorobenzene (Surr)	308	S1+	70 - 130	09/20/21 13:52	09/21/21 23:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-380

Lab Sample ID: 880-6278-58

Date Collected: 09/15/21 12:06

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.8		50.0	mg/Kg			09/29/21 14:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 13:55	1
Diesel Range Organics (Over C10-C28)	63.8		49.8	mg/Kg		09/27/21 08:53	09/27/21 13:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			09/27/21 08:53	09/27/21 13:55	1
o-Terphenyl (Surr)	0.2	S1-	70 - 130			09/27/21 08:53	09/27/21 13:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1590		24.9	mg/Kg			09/27/21 16:53	5

Client Sample ID: C-381

Lab Sample ID: 880-6278-59

Date Collected: 09/15/21 12:10

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:52	09/21/21 23:45	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:52	09/21/21 23:45	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:52	09/21/21 23:45	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/20/21 13:52	09/21/21 23:45	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:52	09/21/21 23:45	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/20/21 13:52	09/21/21 23:45	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/20/21 13:52	09/21/21 23:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			09/20/21 13:52	09/21/21 23:45	1
1,4-Difluorobenzene (Surr)	318	S1+	70 - 130			09/20/21 13:52	09/21/21 23:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 14:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 14:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 14:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130			09/27/21 08:53	09/27/21 14:17	1
o-Terphenyl (Surr)	131	S1+	70 - 130			09/27/21 08:53	09/27/21 14:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-381

Lab Sample ID: 880-6278-59

Date Collected: 09/15/21 12:10

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		24.8	mg/Kg			09/27/21 16:58	5

Client Sample ID: C-382

Lab Sample ID: 880-6278-60

Date Collected: 09/15/21 12:14

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:52	09/22/21 00:11	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:52	09/22/21 00:11	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:52	09/22/21 00:11	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/20/21 13:52	09/22/21 00:11	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:52	09/22/21 00:11	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/20/21 13:52	09/22/21 00:11	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/20/21 13:52	09/22/21 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	09/20/21 13:52	09/22/21 00:11	1
1,4-Difluorobenzene (Surr)	315	S1+	70 - 130	09/20/21 13:52	09/22/21 00:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 14:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 14:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 14:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130	09/27/21 08:53	09/27/21 14:39	1
o-Terphenyl (Surr)	129		70 - 130	09/27/21 08:53	09/27/21 14:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		4.99	mg/Kg			09/25/21 22:07	1

Client Sample ID: C-383

Lab Sample ID: 880-6278-61

Date Collected: 09/15/21 12:18

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198	mg/Kg		09/20/21 13:54	09/22/21 04:18	1
Toluene	<0.00198	U F1	0.00198	mg/Kg		09/20/21 13:54	09/22/21 04:18	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:54	09/22/21 04:18	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/20/21 13:54	09/22/21 04:18	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:54	09/22/21 04:18	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/20/21 13:54	09/22/21 04:18	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-383

Lab Sample ID: 880-6278-61

Date Collected: 09/15/21 12:18

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U F1	0.00396	mg/Kg		09/20/21 13:54	09/22/21 04:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	09/20/21 13:54	09/22/21 04:18	1
1,4-Difluorobenzene (Surr)	255	S1+	70 - 130	09/20/21 13:54	09/22/21 04:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F2	49.8	mg/Kg		09/21/21 11:00	09/22/21 11:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 11:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130	09/21/21 11:00	09/22/21 11:35	1
o-Terphenyl (Surr)	84		70 - 130	09/21/21 11:00	09/22/21 11:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	207		4.96	mg/Kg			09/25/21 22:13	1

Client Sample ID: C-384

Lab Sample ID: 880-6278-62

Date Collected: 09/15/21 12:22

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:54	09/22/21 04:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:54	09/22/21 04:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:54	09/22/21 04:44	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:54	09/22/21 04:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:54	09/22/21 04:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:54	09/22/21 04:44	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:54	09/22/21 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/20/21 13:54	09/22/21 04:44	1
1,4-Difluorobenzene (Surr)	247	S1+	70 - 130	09/20/21 13:54	09/22/21 04:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 12:39	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-384

Lab Sample ID: 880-6278-62

Date Collected: 09/15/21 12:22

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 12:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 12:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			09/21/21 11:00	09/22/21 12:39	1
o-Terphenyl (Surr)	87		70 - 130			09/21/21 11:00	09/22/21 12:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		4.95	mg/Kg			09/25/21 22:18	1

Client Sample ID: C-385

Lab Sample ID: 880-6278-63

Date Collected: 09/15/21 12:26

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 05:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 05:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 05:10	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 13:54	09/22/21 05:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 05:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 13:54	09/22/21 05:10	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 13:54	09/22/21 05:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			09/20/21 13:54	09/22/21 05:10	1
1,4-Difluorobenzene (Surr)	314	S1+	70 - 130			09/20/21 13:54	09/22/21 05:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 13:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 13:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 13:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			09/21/21 11:00	09/22/21 13:01	1
o-Terphenyl (Surr)	88		70 - 130			09/21/21 11:00	09/22/21 13:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		4.95	mg/Kg			09/25/21 22:24	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-386

Lab Sample ID: 880-6278-64

Date Collected: 09/15/21 12:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 05:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 05:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 05:38	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 13:54	09/22/21 05:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 05:38	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 13:54	09/22/21 05:38	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 13:54	09/22/21 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/20/21 13:54	09/22/21 05:38	1
1,4-Difluorobenzene (Surr)	330	S1+	70 - 130	09/20/21 13:54	09/22/21 05:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 13:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 13:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	09/21/21 11:00	09/22/21 13:22	1
o-Terphenyl (Surr)	90		70 - 130	09/21/21 11:00	09/22/21 13:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193		5.00	mg/Kg			09/25/21 22:29	1

Client Sample ID: C-387

Lab Sample ID: 880-6278-65

Date Collected: 09/16/21 11:00

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:54	09/22/21 06:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:54	09/22/21 06:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:54	09/22/21 06:05	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 13:54	09/22/21 06:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:54	09/22/21 06:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 13:54	09/22/21 06:05	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 13:54	09/22/21 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/20/21 13:54	09/22/21 06:05	1
1,4-Difluorobenzene (Surr)	250	S1+	70 - 130	09/20/21 13:54	09/22/21 06:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-387

Lab Sample ID: 880-6278-65

Date Collected: 09/16/21 11:00

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 13:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 13:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 13:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			09/21/21 11:00	09/22/21 13:44	1
o-Terphenyl (Surr)	87		70 - 130			09/21/21 11:00	09/22/21 13:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.7		4.96	mg/Kg			09/24/21 01:26	1

Client Sample ID: C-388

Lab Sample ID: 880-6278-66

Date Collected: 09/16/21 11:03

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 06:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 06:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 06:32	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/20/21 13:54	09/22/21 06:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 06:32	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/20/21 13:54	09/22/21 06:32	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/20/21 13:54	09/22/21 06:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/20/21 13:54	09/22/21 06:32	1
1,4-Difluorobenzene (Surr)	337	S1+	70 - 130			09/20/21 13:54	09/22/21 06:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 14:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			09/21/21 11:00	09/22/21 14:05	1
o-Terphenyl (Surr)	87		70 - 130			09/21/21 11:00	09/22/21 14:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-388

Lab Sample ID: 880-6278-66

Date Collected: 09/16/21 11:03

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.9		5.04	mg/Kg			09/24/21 01:41	1

Client Sample ID: C-389

Lab Sample ID: 880-6278-67

Date Collected: 09/16/21 11:06

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:54	09/22/21 06:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:54	09/22/21 06:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:54	09/22/21 06:59	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:54	09/22/21 06:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:54	09/22/21 06:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:54	09/22/21 06:59	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:54	09/22/21 06:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	09/20/21 13:54	09/22/21 06:59	1
1,4-Difluorobenzene (Surr)	357	S1+	70 - 130	09/20/21 13:54	09/22/21 06:59	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 14:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 14:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	09/21/21 11:00	09/22/21 14:26	1
o-Terphenyl (Surr)	99		70 - 130	09/21/21 11:00	09/22/21 14:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.8		4.98	mg/Kg			09/24/21 01:46	1

Client Sample ID: C-390

Lab Sample ID: 880-6278-68

Date Collected: 09/16/21 11:09

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:54	09/22/21 07:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:54	09/22/21 07:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:54	09/22/21 07:26	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 13:54	09/22/21 07:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:54	09/22/21 07:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 13:54	09/22/21 07:26	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-390

Lab Sample ID: 880-6278-68

Date Collected: 09/16/21 11:09

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 13:54	09/22/21 07:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/20/21 13:54	09/22/21 07:26	1
1,4-Difluorobenzene (Surr)	371	S1+	70 - 130	09/20/21 13:54	09/22/21 07:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method 8160-RM Diesel Range Organics (DRO) (C6-C36)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 14:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 14:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			09/21/21 11:00	09/22/21 14:48	1
o-Terphenyl (Surr)	92		70 - 130			09/21/21 11:00	09/22/21 14:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.5		4.95	mg/Kg			09/24/21 01:51	1

Client Sample ID: C-391

Lab Sample ID: 880-6278-69

Date Collected: 09/16/21 11:12

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 07:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 07:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 07:54	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:54	09/22/21 07:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 07:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:54	09/22/21 07:54	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:54	09/22/21 07:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/20/21 13:54	09/22/21 07:54	1
1,4-Difluorobenzene (Surr)	355	S1+	70 - 130	09/20/21 13:54	09/22/21 07:54	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 15:09	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-391

Lab Sample ID: 880-6278-69

Date Collected: 09/16/21 11:12

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 15:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 15:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130			09/21/21 11:00	09/22/21 15:09	1
o-Terphenyl (Surr)	92		70 - 130			09/21/21 11:00	09/22/21 15:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.6		5.00	mg/Kg			09/24/21 01:56	1

Client Sample ID: C-392

Lab Sample ID: 880-6278-70

Date Collected: 09/16/21 11:15

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:54	09/22/21 08:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:54	09/22/21 08:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:54	09/22/21 08:20	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:54	09/22/21 08:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:54	09/22/21 08:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:54	09/22/21 08:20	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:54	09/22/21 08:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130			09/20/21 13:54	09/22/21 08:20	1
1,4-Difluorobenzene (Surr)	367	S1+	70 - 130			09/20/21 13:54	09/22/21 08:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 15:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 15:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 15:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			09/21/21 11:00	09/22/21 15:30	1
o-Terphenyl (Surr)	100		70 - 130			09/21/21 11:00	09/22/21 15:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.2		5.00	mg/Kg			09/24/21 02:11	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-393

Lab Sample ID: 880-6278-71

Date Collected: 09/16/21 11:18

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200	mg/Kg		09/22/21 09:52	09/23/21 23:31	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		09/22/21 09:52	09/23/21 23:31	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/Kg		09/22/21 09:52	09/23/21 23:31	1
m,p-Xylenes	<0.00400	U F1	0.00400	mg/Kg		09/22/21 09:52	09/23/21 23:31	1
o-Xylene	<0.00200	U F1	0.00200	mg/Kg		09/22/21 09:52	09/23/21 23:31	1
Xylenes, Total	<0.00400	U F1	0.00400	mg/Kg		09/22/21 09:52	09/23/21 23:31	1
Total BTEX	<0.00400	U F1	0.00400	mg/Kg		09/22/21 09:52	09/23/21 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	09/22/21 09:52	09/23/21 23:31	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/22/21 09:52	09/23/21 23:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 16:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 16:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	09/21/21 11:00	09/22/21 16:12	1
o-Terphenyl (Surr)	94		70 - 130	09/21/21 11:00	09/22/21 16:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.5		5.02	mg/Kg			09/24/21 02:16	1

Client Sample ID: C-394

Lab Sample ID: 880-6278-72

Date Collected: 09/16/21 11:21

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00301		0.00201	mg/Kg		09/22/21 09:52	09/23/21 23:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/22/21 09:52	09/23/21 23:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/22/21 09:52	09/23/21 23:52	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/22/21 09:52	09/23/21 23:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/22/21 09:52	09/23/21 23:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/22/21 09:52	09/23/21 23:52	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/22/21 09:52	09/23/21 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130	09/22/21 09:52	09/23/21 23:52	1
1,4-Difluorobenzene (Surr)	84		70 - 130	09/22/21 09:52	09/23/21 23:52	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-394

Lab Sample ID: 880-6278-72

Date Collected: 09/16/21 11:21

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 16:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 16:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 16:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			09/21/21 11:00	09/22/21 16:33	1
o-Terphenyl (Surr)	88		70 - 130			09/21/21 11:00	09/22/21 16:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.4		4.98	mg/Kg			09/24/21 02:21	1

Client Sample ID: C-395

Lab Sample ID: 880-6278-73

Date Collected: 09/16/21 11:24

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 00:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 00:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 00:13	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/22/21 09:52	09/24/21 00:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 00:13	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/22/21 09:52	09/24/21 00:13	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/22/21 09:52	09/24/21 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			09/22/21 09:52	09/24/21 00:13	1
1,4-Difluorobenzene (Surr)	103		70 - 130			09/22/21 09:52	09/24/21 00:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 16:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 16:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 11:00	09/22/21 16:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/21/21 11:00	09/22/21 16:55	1
o-Terphenyl (Surr)	100		70 - 130			09/21/21 11:00	09/22/21 16:55	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-395

Lab Sample ID: 880-6278-73

Date Collected: 09/16/21 11:24

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.4		4.95	mg/Kg			09/24/21 02:26	1

Client Sample ID: C-396

Lab Sample ID: 880-6278-74

Date Collected: 09/16/21 11:27

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 00:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 00:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 00:34	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/22/21 09:52	09/24/21 00:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 00:34	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/22/21 09:52	09/24/21 00:34	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/22/21 09:52	09/24/21 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	09/22/21 09:52	09/24/21 00:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/22/21 09:52	09/24/21 00:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 17:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 17:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130	09/21/21 11:00	09/22/21 17:16	1
o-Terphenyl (Surr)	92		70 - 130	09/21/21 11:00	09/22/21 17:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.6		4.95	mg/Kg			09/24/21 02:31	1

Client Sample ID: C-397

Lab Sample ID: 880-6278-75

Date Collected: 09/16/21 11:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/22/21 09:52	09/24/21 00:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/22/21 09:52	09/24/21 00:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/22/21 09:52	09/24/21 00:54	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/22/21 09:52	09/24/21 00:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/22/21 09:52	09/24/21 00:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/22/21 09:52	09/24/21 00:54	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-397

Lab Sample ID: 880-6278-75

Date Collected: 09/16/21 11:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/22/21 09:52	09/24/21 00:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			09/22/21 09:52	09/24/21 00:54	1
1,4-Difluorobenzene (Surr)	77		70 - 130			09/22/21 09:52	09/24/21 00:54	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 17:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 17:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 17:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			09/21/21 11:00	09/22/21 17:38	1
o-Terphenyl (Surr)	87		70 - 130			09/21/21 11:00	09/22/21 17:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.5		5.04	mg/Kg			09/24/21 02:36	1

Client Sample ID: C-398

Lab Sample ID: 880-6278-76

Date Collected: 09/16/21 11:33

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 01:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 01:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 01:15	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/22/21 09:52	09/24/21 01:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 01:15	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/22/21 09:52	09/24/21 01:15	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/22/21 09:52	09/24/21 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	190	S1+	70 - 130			09/22/21 09:52	09/24/21 01:15	1
1,4-Difluorobenzene (Surr)	85		70 - 130			09/22/21 09:52	09/24/21 01:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 17:59	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-398

Lab Sample ID: 880-6278-76

Date Collected: 09/16/21 11:33

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 17:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 17:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			09/21/21 11:00	09/22/21 17:59	1
o-Terphenyl (Surr)	94		70 - 130			09/21/21 11:00	09/22/21 17:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.5		4.97	mg/Kg			09/24/21 02:51	1

Client Sample ID: C-399

Lab Sample ID: 880-6278-77

Date Collected: 09/16/21 11:36

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/22/21 09:52	09/24/21 01:36	1
Toluene	0.00375		0.00201	mg/Kg		09/22/21 09:52	09/24/21 01:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/22/21 09:52	09/24/21 01:36	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/22/21 09:52	09/24/21 01:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/22/21 09:52	09/24/21 01:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/22/21 09:52	09/24/21 01:36	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/22/21 09:52	09/24/21 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			09/22/21 09:52	09/24/21 01:36	1
1,4-Difluorobenzene (Surr)	101		70 - 130			09/22/21 09:52	09/24/21 01:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 18:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 18:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 18:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130			09/21/21 11:00	09/22/21 18:21	1
o-Terphenyl (Surr)	75		70 - 130			09/21/21 11:00	09/22/21 18:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.0		4.99	mg/Kg			09/24/21 02:56	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-400

Lab Sample ID: 880-6278-78

Date Collected: 09/16/21 11:39

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/22/21 09:52	09/24/21 01:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/22/21 09:52	09/24/21 01:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/22/21 09:52	09/24/21 01:56	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/22/21 09:52	09/24/21 01:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/22/21 09:52	09/24/21 01:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/22/21 09:52	09/24/21 01:56	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/22/21 09:52	09/24/21 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/22/21 09:52	09/24/21 01:56	1
1,4-Difluorobenzene (Surr)	114		70 - 130	09/22/21 09:52	09/24/21 01:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 18:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 18:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130	09/21/21 11:00	09/22/21 18:42	1
o-Terphenyl (Surr)	83		70 - 130	09/21/21 11:00	09/22/21 18:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.6		4.95	mg/Kg			09/24/21 03:10	1

Client Sample ID: C-401

Lab Sample ID: 880-6278-79

Date Collected: 09/16/21 11:42

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 02:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 02:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 02:17	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/22/21 09:52	09/24/21 02:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/24/21 02:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/22/21 09:52	09/24/21 02:17	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/22/21 09:52	09/24/21 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	09/22/21 09:52	09/24/21 02:17	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/22/21 09:52	09/24/21 02:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-401

Lab Sample ID: 880-6278-79

Date Collected: 09/16/21 11:42

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 19:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 19:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 11:00	09/22/21 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			09/21/21 11:00	09/22/21 19:04	1
o-Terphenyl (Surr)	84		70 - 130			09/21/21 11:00	09/22/21 19:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.7		5.00	mg/Kg			09/24/21 03:15	1

Client Sample ID: C-402

Lab Sample ID: 880-6278-80

Date Collected: 09/16/21 11:45

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/22/21 09:52	09/24/21 02:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/22/21 09:52	09/24/21 02:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/22/21 09:52	09/24/21 02:38	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/22/21 09:52	09/24/21 02:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/22/21 09:52	09/24/21 02:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/22/21 09:52	09/24/21 02:38	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/22/21 09:52	09/24/21 02:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			09/22/21 09:52	09/24/21 02:38	1
1,4-Difluorobenzene (Surr)	77		70 - 130			09/22/21 09:52	09/24/21 02:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 19:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 19:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			09/21/21 11:00	09/22/21 19:25	1
o-Terphenyl (Surr)	100		70 - 130			09/21/21 11:00	09/22/21 19:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-402

Lab Sample ID: 880-6278-80

Date Collected: 09/16/21 11:45

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.0		5.05	mg/Kg			09/24/21 03:20	1

Client Sample ID: C-403

Lab Sample ID: 880-6278-81

Date Collected: 09/16/21 11:48

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		09/20/21 13:56	09/22/21 12:21	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		09/20/21 13:56	09/22/21 12:21	1
Ethylbenzene	<0.00199	U F1 F2	0.00199	mg/Kg		09/20/21 13:56	09/22/21 12:21	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		09/20/21 13:56	09/22/21 12:21	1
o-Xylene	<0.00199	U F1 F2	0.00199	mg/Kg		09/20/21 13:56	09/22/21 12:21	1
Xylenes, Total	<0.00398	U F1 F2	0.00398	mg/Kg		09/20/21 13:56	09/22/21 12:21	1
Total BTEX	<0.00398	U F1 F2	0.00398	mg/Kg		09/20/21 13:56	09/22/21 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	09/20/21 13:56	09/22/21 12:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/20/21 13:56	09/22/21 12:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 11:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 11:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	09/21/21 15:37	09/22/21 11:35	1
o-Terphenyl (Surr)	117		70 - 130	09/21/21 15:37	09/22/21 11:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.4		4.97	mg/Kg			09/24/21 03:25	1

Client Sample ID: C-404

Lab Sample ID: 880-6278-82

Date Collected: 09/16/21 11:51

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 12:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 12:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 12:41	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:56	09/22/21 12:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 12:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:56	09/22/21 12:41	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-404

Lab Sample ID: 880-6278-82

Date Collected: 09/16/21 11:51

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:56	09/22/21 12:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			09/20/21 13:56	09/22/21 12:41	1
1,4-Difluorobenzene (Surr)	105		70 - 130			09/20/21 13:56	09/22/21 12:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 12:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 12:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 12:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/21/21 15:37	09/22/21 12:39	1
o-Terphenyl (Surr)	105		70 - 130			09/21/21 15:37	09/22/21 12:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.2		5.05	mg/Kg			09/24/21 03:30	1

Client Sample ID: C-405

Lab Sample ID: 880-6278-83

Date Collected: 09/16/21 11:54

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 13:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 13:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 13:02	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:56	09/22/21 13:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 13:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:56	09/22/21 13:02	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:56	09/22/21 13:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			09/20/21 13:56	09/22/21 13:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130			09/20/21 13:56	09/22/21 13:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 13:01	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-405

Lab Sample ID: 880-6278-83

Date Collected: 09/16/21 11:54

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 13:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 13:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130			09/21/21 15:37	09/22/21 13:01	1
o-Terphenyl (Surr)	111		70 - 130			09/21/21 15:37	09/22/21 13:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.9		4.95	mg/Kg			09/24/21 03:35	1

Client Sample ID: C-406

Lab Sample ID: 880-6278-84

Date Collected: 09/16/21 11:57

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 13:22	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 13:22	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 13:22	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/20/21 13:56	09/22/21 13:22	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 13:22	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/20/21 13:56	09/22/21 13:22	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/20/21 13:56	09/22/21 13:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			09/20/21 13:56	09/22/21 13:22	1
1,4-Difluorobenzene (Surr)	100		70 - 130			09/20/21 13:56	09/22/21 13:22	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 13:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 13:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 13:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/21/21 15:37	09/22/21 13:22	1
o-Terphenyl (Surr)	109		70 - 130			09/21/21 15:37	09/22/21 13:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.4		4.98	mg/Kg			09/24/21 03:40	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-407

Lab Sample ID: 880-6278-85

Date Collected: 09/16/21 12:00

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 13:42	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 13:42	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 13:42	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/20/21 13:56	09/22/21 13:42	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 13:42	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/20/21 13:56	09/22/21 13:42	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/20/21 13:56	09/22/21 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	09/20/21 13:56	09/22/21 13:42	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/20/21 13:56	09/22/21 13:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 13:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 13:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	09/21/21 15:37	09/22/21 13:44	1
o-Terphenyl (Surr)	115		70 - 130	09/21/21 15:37	09/22/21 13:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.1		4.95	mg/Kg			09/24/21 04:20	1

Client Sample ID: C-408

Lab Sample ID: 880-6278-86

Date Collected: 09/16/21 12:03

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 14:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 14:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 14:03	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/20/21 13:56	09/22/21 14:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 14:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/20/21 13:56	09/22/21 14:03	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/20/21 13:56	09/22/21 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	09/20/21 13:56	09/22/21 14:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/20/21 13:56	09/22/21 14:03	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-408

Lab Sample ID: 880-6278-86

Date Collected: 09/16/21 12:03

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 14:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/21/21 15:37	09/22/21 14:05	1
o-Terphenyl (Surr)	111		70 - 130			09/21/21 15:37	09/22/21 14:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.6		5.04	mg/Kg			09/24/21 04:35	1

Client Sample ID: C-409

Lab Sample ID: 880-6278-87

Date Collected: 09/16/21 12:06

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 14:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 14:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 14:23	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 13:56	09/22/21 14:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 14:23	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 13:56	09/22/21 14:23	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 13:56	09/22/21 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			09/20/21 13:56	09/22/21 14:23	1
1,4-Difluorobenzene (Surr)	112		70 - 130			09/20/21 13:56	09/22/21 14:23	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 14:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 14:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/21/21 15:37	09/22/21 14:26	1
o-Terphenyl (Surr)	108		70 - 130			09/21/21 15:37	09/22/21 14:26	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-409

Lab Sample ID: 880-6278-87

Date Collected: 09/16/21 12:06

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.3		4.97	mg/Kg			09/24/21 04:40	1

Client Sample ID: C-410

Lab Sample ID: 880-6278-88

Date Collected: 09/16/21 12:09

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:56	09/22/21 14:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:56	09/22/21 14:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:56	09/22/21 14:44	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 13:56	09/22/21 14:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:56	09/22/21 14:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 13:56	09/22/21 14:44	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 13:56	09/22/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/20/21 13:56	09/22/21 14:44	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/20/21 13:56	09/22/21 14:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 14:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 14:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130	09/21/21 15:37	09/22/21 14:48	1
o-Terphenyl (Surr)	127		70 - 130	09/21/21 15:37	09/22/21 14:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.3		4.99	mg/Kg			09/24/21 04:44	1

Client Sample ID: C-411

Lab Sample ID: 880-6278-89

Date Collected: 09/16/21 12:12

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:56	09/22/21 15:04	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:56	09/22/21 15:04	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:56	09/22/21 15:04	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/20/21 13:56	09/22/21 15:04	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:56	09/22/21 15:04	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/20/21 13:56	09/22/21 15:04	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-411

Lab Sample ID: 880-6278-89

Date Collected: 09/16/21 12:12

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/20/21 13:56	09/22/21 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	09/20/21 13:56	09/22/21 15:04	1
1,4-Difluorobenzene (Surr)	87		70 - 130	09/20/21 13:56	09/22/21 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 15:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 15:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 15:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			09/21/21 15:37	09/22/21 15:09	1
o-Terphenyl (Surr)	124		70 - 130			09/21/21 15:37	09/22/21 15:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.9		4.95	mg/Kg			09/24/21 04:49	1

Client Sample ID: C-412

Lab Sample ID: 880-6278-90

Date Collected: 09/16/21 12:15

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:56	09/22/21 15:25	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:56	09/22/21 15:25	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:56	09/22/21 15:25	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 13:56	09/22/21 15:25	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 13:56	09/22/21 15:25	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 13:56	09/22/21 15:25	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 13:56	09/22/21 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/20/21 13:56	09/22/21 15:25	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/20/21 13:56	09/22/21 15:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 15:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-412

Lab Sample ID: 880-6278-90

Date Collected: 09/16/21 12:15

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 15:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 15:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/21/21 15:37	09/22/21 15:30	1
o-Terphenyl (Surr)	112		70 - 130			09/21/21 15:37	09/22/21 15:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.7		5.00	mg/Kg			09/24/21 05:04	1

Client Sample ID: C-413

Lab Sample ID: 880-6278-91

Date Collected: 09/16/21 12:20

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 18:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 18:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 18:52	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/20/21 13:56	09/22/21 18:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 18:52	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/20/21 13:56	09/22/21 18:52	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/20/21 13:56	09/22/21 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			09/20/21 13:56	09/22/21 18:52	1
1,4-Difluorobenzene (Surr)	94		70 - 130			09/20/21 13:56	09/22/21 18:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 16:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 16:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 16:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130			09/21/21 15:37	09/22/21 16:12	1
o-Terphenyl (Surr)	131	S1+	70 - 130			09/21/21 15:37	09/22/21 16:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.2		4.98	mg/Kg			09/24/21 05:09	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-414

Lab Sample ID: 880-6278-92

Date Collected: 09/16/21 12:21

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200	mg/Kg		09/24/21 10:53	09/24/21 18:10	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		09/24/21 10:53	09/24/21 18:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/24/21 10:53	09/24/21 18:10	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/24/21 10:53	09/24/21 18:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/24/21 10:53	09/24/21 18:10	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/24/21 10:53	09/24/21 18:10	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/24/21 10:53	09/24/21 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/24/21 10:53	09/24/21 18:10	1
1,4-Difluorobenzene (Surr)	74		70 - 130	09/24/21 10:53	09/24/21 18:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 16:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 16:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130	09/21/21 15:37	09/22/21 16:33	1
o-Terphenyl (Surr)	118		70 - 130	09/21/21 15:37	09/22/21 16:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.9		5.05	mg/Kg			09/24/21 05:14	1

Client Sample ID: C-415

Lab Sample ID: 880-6278-93

Date Collected: 09/16/21 12:22

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 19:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 19:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 19:33	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:56	09/22/21 19:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 19:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:56	09/22/21 19:33	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:56	09/22/21 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/20/21 13:56	09/22/21 19:33	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/20/21 13:56	09/22/21 19:33	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-415

Lab Sample ID: 880-6278-93

Date Collected: 09/16/21 12:22

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 16:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 16:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:37	09/22/21 16:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			09/21/21 15:37	09/22/21 16:55	1
o-Terphenyl (Surr)	123		70 - 130			09/21/21 15:37	09/22/21 16:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.1		4.98	mg/Kg			09/24/21 05:19	1

Client Sample ID: C-416

Lab Sample ID: 880-6278-94

Date Collected: 09/16/21 12:23

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 19:53	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 19:53	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 19:53	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/20/21 13:56	09/22/21 19:53	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 19:53	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/20/21 13:56	09/22/21 19:53	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		09/20/21 13:56	09/22/21 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			09/20/21 13:56	09/22/21 19:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/20/21 13:56	09/22/21 19:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 17:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 17:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 17:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			09/21/21 15:37	09/22/21 17:16	1
o-Terphenyl (Surr)	121		70 - 130			09/21/21 15:37	09/22/21 17:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-416

Lab Sample ID: 880-6278-94

Date Collected: 09/16/21 12:23

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.2		5.02	mg/Kg			09/24/21 05:24	1

Client Sample ID: C-417

Lab Sample ID: 880-6278-95

Date Collected: 09/16/21 12:24

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 20:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 20:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 20:14	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:56	09/22/21 20:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 20:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:56	09/22/21 20:14	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:56	09/22/21 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	09/20/21 13:56	09/22/21 20:14	1
1,4-Difluorobenzene (Surr)	91		70 - 130	09/20/21 13:56	09/22/21 20:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 17:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 17:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	09/21/21 15:37	09/22/21 17:38	1
o-Terphenyl (Surr)	101		70 - 130	09/21/21 15:37	09/22/21 17:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.0		4.98	mg/Kg			09/24/21 05:29	1

Client Sample ID: C-418

Lab Sample ID: 880-6278-96

Date Collected: 09/16/21 12:25

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 20:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 20:34	1
Ethylbenzene	0.00274		0.00200	mg/Kg		09/20/21 13:56	09/22/21 20:34	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:56	09/22/21 20:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 20:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:56	09/22/21 20:34	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-418

Lab Sample ID: 880-6278-96

Date Collected: 09/16/21 12:25

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:56	09/22/21 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/20/21 13:56	09/22/21 20:34	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/20/21 13:56	09/22/21 20:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method: 8010D NM - Diesel Range Organics (DRO) (CO)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 17:59		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 17:59		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 17:59		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	102		70 - 130			09/21/21 15:37	09/22/21 17:59		1
o-Terphenyl (Surr)	108		70 - 130			09/21/21 15:37	09/22/21 17:59		1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.9		5.04	mg/Kg			09/24/21 05:44	1

Client Sample ID: C-419

Lab Sample ID: 880-6278-97

Date Collected: 09/16/21 12:26

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 20:54	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 20:54	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 20:54	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/20/21 13:56	09/22/21 20:54	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/21 13:56	09/22/21 20:54	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/20/21 13:56	09/22/21 20:54	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/20/21 13:56	09/22/21 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	09/20/21 13:56	09/22/21 20:54	1
1,4-Difluorobenzene (Surr)	88		70 - 130	09/20/21 13:56	09/22/21 20:54	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 18:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-419

Lab Sample ID: 880-6278-97

Date Collected: 09/16/21 12:26

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 18:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 18:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/21/21 15:37	09/22/21 18:21	1
o-Terphenyl (Surr)	108		70 - 130			09/21/21 15:37	09/22/21 18:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.2		4.97	mg/Kg			09/24/21 05:49	1

Client Sample ID: C-420

Lab Sample ID: 880-6278-98

Date Collected: 09/16/21 12:27

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:56	09/22/21 21:15	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:56	09/22/21 21:15	1
Ethylbenzene	0.00505		0.00202	mg/Kg		09/20/21 13:56	09/22/21 21:15	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/20/21 13:56	09/22/21 21:15	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 13:56	09/22/21 21:15	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/20/21 13:56	09/22/21 21:15	1
Total BTEX	0.00505		0.00403	mg/Kg		09/20/21 13:56	09/22/21 21:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			09/20/21 13:56	09/22/21 21:15	1
1,4-Difluorobenzene (Surr)	93		70 - 130			09/20/21 13:56	09/22/21 21:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 18:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 18:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 18:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			09/21/21 15:37	09/22/21 18:42	1
o-Terphenyl (Surr)	108		70 - 130			09/21/21 15:37	09/22/21 18:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.9		4.99	mg/Kg			09/24/21 06:04	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-421

Lab Sample ID: 880-6278-99

Date Collected: 09/16/21 12:28

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 21:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 21:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 21:35	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 13:56	09/22/21 21:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 13:56	09/22/21 21:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 13:56	09/22/21 21:35	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 13:56	09/22/21 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	09/20/21 13:56	09/22/21 21:35	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/20/21 13:56	09/22/21 21:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 19:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 19:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 15:37	09/22/21 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130	09/21/21 15:37	09/22/21 19:04	1
o-Terphenyl (Surr)	136	S1+	70 - 130	09/21/21 15:37	09/22/21 19:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.0		5.03	mg/Kg			09/24/21 06:09	1

Client Sample ID: C-422

Lab Sample ID: 880-6278-100

Date Collected: 09/16/21 12:29

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 21:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 21:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 21:55	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/20/21 13:56	09/22/21 21:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 21:55	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/20/21 13:56	09/22/21 21:55	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/20/21 13:56	09/22/21 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	09/20/21 13:56	09/22/21 21:55	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/20/21 13:56	09/22/21 21:55	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-422

Lab Sample ID: 880-6278-100

Date Collected: 09/16/21 12:29

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 19:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 19:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			09/21/21 15:37	09/22/21 19:25	1
o-Terphenyl (Surr)	123		70 - 130			09/21/21 15:37	09/22/21 19:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.7		5.00	mg/Kg			09/24/21 06:14	1

Client Sample ID: C-423

Lab Sample ID: 880-6278-101

Date Collected: 09/16/21 12:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202	mg/Kg		09/20/21 14:00	09/23/21 19:12	1
Toluene	<0.00202	U F2 F1	0.00202	mg/Kg		09/20/21 14:00	09/23/21 19:12	1
Ethylbenzene	<0.00202	U F1	0.00202	mg/Kg		09/20/21 14:00	09/23/21 19:12	1
m,p-Xylenes	<0.00403	U F1	0.00403	mg/Kg		09/20/21 14:00	09/23/21 19:12	1
o-Xylene	<0.00202	U F2 F1	0.00202	mg/Kg		09/20/21 14:00	09/23/21 19:12	1
Xylenes, Total	<0.00403	U F1	0.00403	mg/Kg		09/20/21 14:00	09/23/21 19:12	1
Total BTEX	<0.00403	U F1	0.00403	mg/Kg		09/20/21 14:00	09/23/21 19:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			09/20/21 14:00	09/23/21 19:12	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/20/21 14:00	09/23/21 19:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 11:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 11:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 11:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			09/21/21 15:51	09/23/21 11:40	1
o-Terphenyl (Surr)	122		70 - 130			09/21/21 15:51	09/23/21 11:40	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-423

Lab Sample ID: 880-6278-101

Date Collected: 09/16/21 12:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.3		5.00	mg/Kg			09/24/21 06:19	1

Client Sample ID: C-424

Lab Sample ID: 880-6278-102

Date Collected: 09/16/21 12:31

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00336		0.00200	mg/Kg		09/20/21 14:00	09/23/21 19:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/23/21 19:33	1
Ethylbenzene	0.00427		0.00200	mg/Kg		09/20/21 14:00	09/23/21 19:33	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 14:00	09/23/21 19:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/23/21 19:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 14:00	09/23/21 19:33	1
Total BTEX	0.00763		0.00400	mg/Kg		09/20/21 14:00	09/23/21 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	09/20/21 14:00	09/23/21 19:33	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/20/21 14:00	09/23/21 19:33	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 12:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 12:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	09/21/21 15:51	09/23/21 12:44	1
o-Terphenyl (Surr)	112		70 - 130	09/21/21 15:51	09/23/21 12:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.1		4.97	mg/Kg			09/24/21 06:24	1

Client Sample ID: C-425

Lab Sample ID: 880-6278-103

Date Collected: 09/16/21 12:32

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/23/21 19:53	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/23/21 19:53	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/23/21 19:53	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 14:00	09/23/21 19:53	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/23/21 19:53	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 14:00	09/23/21 19:53	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-425

Lab Sample ID: 880-6278-103

Date Collected: 09/16/21 12:32

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 14:00	09/23/21 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/20/21 14:00	09/23/21 19:53	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/20/21 14:00	09/23/21 19:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 13:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 13:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 13:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130			09/21/21 15:51	09/23/21 13:05	1
o-Terphenyl (Surr)	115		70 - 130			09/21/21 15:51	09/23/21 13:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.5		5.00	mg/Kg			09/24/21 06:28	1

Client Sample ID: C-426

Lab Sample ID: 880-6278-104

Date Collected: 09/16/21 12:33

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/23/21 20:13	1
Toluene	0.00255		0.00199	mg/Kg		09/20/21 14:00	09/23/21 20:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/23/21 20:13	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/23/21 20:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/23/21 20:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/23/21 20:13	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/23/21 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/20/21 14:00	09/23/21 20:13	1
1,4-Difluorobenzene (Surr)	112		70 - 130	09/20/21 14:00	09/23/21 20:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 13:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-426

Lab Sample ID: 880-6278-104

Date Collected: 09/16/21 12:33

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 13:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 13:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/21/21 15:51	09/23/21 13:27	1
o-Terphenyl (Surr)	108		70 - 130			09/21/21 15:51	09/23/21 13:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.4		5.00	mg/Kg			09/24/21 06:33	1

Client Sample ID: C-427

Lab Sample ID: 880-6278-105

Date Collected: 09/16/21 12:34

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/23/21 20:34	1
Toluene	0.00492		0.00199	mg/Kg		09/20/21 14:00	09/23/21 20:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/23/21 20:34	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/23/21 20:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/23/21 20:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/23/21 20:34	1
Total BTEX	0.00492		0.00398	mg/Kg		09/20/21 14:00	09/23/21 20:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/20/21 14:00	09/23/21 20:34	1
1,4-Difluorobenzene (Surr)	118		70 - 130			09/20/21 14:00	09/23/21 20:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 13:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 13:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 13:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			09/21/21 15:51	09/23/21 13:49	1
o-Terphenyl (Surr)	120		70 - 130			09/21/21 15:51	09/23/21 13:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.3		4.96	mg/Kg			09/24/21 07:13	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-428

Lab Sample ID: 880-6278-106

Date Collected: 09/16/21 12:35

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/23/21 20:54	1
Toluene	0.00439		0.00199	mg/Kg		09/20/21 14:00	09/23/21 20:54	1
Ethylbenzene	0.00537		0.00199	mg/Kg		09/20/21 14:00	09/23/21 20:54	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/23/21 20:54	1
o-Xylene	0.00204		0.00199	mg/Kg		09/20/21 14:00	09/23/21 20:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/23/21 20:54	1
Total BTEX	0.0118		0.00398	mg/Kg		09/20/21 14:00	09/23/21 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	09/20/21 14:00	09/23/21 20:54	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/20/21 14:00	09/23/21 20:54	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 14:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 14:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 14:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			09/21/21 15:51	09/23/21 14:10	1
o-Terphenyl (Surr)	117		70 - 130			09/21/21 15:51	09/23/21 14:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.6		5.02	mg/Kg			09/24/21 07:28	1

Client Sample ID: C-429

Lab Sample ID: 880-6278-107

Date Collected: 09/16/21 12:40

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00367		0.00200	mg/Kg		09/20/21 14:00	09/23/21 21:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/23/21 21:15	1
Ethylbenzene	0.00359		0.00200	mg/Kg		09/20/21 14:00	09/23/21 21:15	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 14:00	09/23/21 21:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/23/21 21:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 14:00	09/23/21 21:15	1
Total BTEX	0.00726		0.00400	mg/Kg		09/20/21 14:00	09/23/21 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/20/21 14:00	09/23/21 21:15	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/20/21 14:00	09/23/21 21:15	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-429

Lab Sample ID: 880-6278-107

Date Collected: 09/16/21 12:40

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 14:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			09/21/21 15:51	09/23/21 14:32	1
o-Terphenyl (Surr)	110		70 - 130			09/21/21 15:51	09/23/21 14:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.24		4.98	mg/Kg			09/24/21 07:33	1

Client Sample ID: C-430

Lab Sample ID: 880-6278-108

Date Collected: 09/16/21 12:45

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 14:00	09/23/21 21:35	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 14:00	09/23/21 21:35	1
Ethylbenzene	0.00325		0.00202	mg/Kg		09/20/21 14:00	09/23/21 21:35	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/20/21 14:00	09/23/21 21:35	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 14:00	09/23/21 21:35	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/20/21 14:00	09/23/21 21:35	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		09/20/21 14:00	09/23/21 21:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			09/20/21 14:00	09/23/21 21:35	1
1,4-Difluorobenzene (Surr)	106		70 - 130			09/20/21 14:00	09/23/21 21:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 14:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 14:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/21/21 15:51	09/23/21 14:53	1
o-Terphenyl (Surr)	109		70 - 130			09/21/21 15:51	09/23/21 14:53	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-430

Lab Sample ID: 880-6278-108

Date Collected: 09/16/21 12:45

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.6		5.00	mg/Kg			09/24/21 07:38	1

Client Sample ID: C-431

Lab Sample ID: 880-6278-109

Date Collected: 09/16/21 12:50

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/20/21 14:00	09/23/21 21:55	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/20/21 14:00	09/23/21 21:55	1
Ethylbenzene	0.00357		0.00202	mg/Kg		09/20/21 14:00	09/23/21 21:55	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/20/21 14:00	09/23/21 21:55	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/20/21 14:00	09/23/21 21:55	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/20/21 14:00	09/23/21 21:55	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/20/21 14:00	09/23/21 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	09/20/21 14:00	09/23/21 21:55	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/20/21 14:00	09/23/21 21:55	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 15:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 15:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	09/21/21 15:51	09/23/21 15:15	1
o-Terphenyl (Surr)	107		70 - 130	09/21/21 15:51	09/23/21 15:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.0		4.99	mg/Kg			09/24/21 07:43	1

Client Sample ID: C-432

Lab Sample ID: 880-6278-110

Date Collected: 09/16/21 12:55

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/23/21 22:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/23/21 22:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/23/21 22:16	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 14:00	09/23/21 22:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/23/21 22:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 14:00	09/23/21 22:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-432

Lab Sample ID: 880-6278-110

Date Collected: 09/16/21 12:55

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 14:00	09/23/21 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	09/20/21 14:00	09/23/21 22:16	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/20/21 14:00	09/23/21 22:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method 8160-RM Diesel Range Organics (DRO) (C6-C36)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 15:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 15:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 15:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			09/21/21 15:51	09/23/21 15:37	1
o-Terphenyl (Surr)	105		70 - 130			09/21/21 15:51	09/23/21 15:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.0		4.97	mg/Kg			09/24/21 07:58	1

Client Sample ID: C-433

Lab Sample ID: 880-6278-111

Date Collected: 09/16/21 13:00

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/24/21 00:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/24/21 00:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/24/21 00:05	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 14:00	09/24/21 00:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/24/21 00:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 14:00	09/24/21 00:05	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 14:00	09/24/21 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/20/21 14:00	09/24/21 00:05	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/20/21 14:00	09/24/21 00:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 16:20	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-433

Lab Sample ID: 880-6278-111

Date Collected: 09/16/21 13:00

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 16:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 16:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			09/21/21 15:51	09/23/21 16:20	1
o-Terphenyl (Surr)	111		70 - 130			09/21/21 15:51	09/23/21 16:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.6		5.04	mg/Kg			09/24/21 08:03	1

Client Sample ID: C-434

Lab Sample ID: 880-6278-112

Date Collected: 09/16/21 13:05

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/24/21 00:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/24/21 00:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/24/21 00:25	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/24/21 00:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/24/21 00:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/24/21 00:25	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/24/21 00:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			09/20/21 14:00	09/24/21 00:25	1
1,4-Difluorobenzene (Surr)	72		70 - 130			09/20/21 14:00	09/24/21 00:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 16:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 16:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 16:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/21/21 15:51	09/23/21 16:42	1
o-Terphenyl (Surr)	114		70 - 130			09/21/21 15:51	09/23/21 16:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.6		5.05	mg/Kg			09/24/21 08:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-435

Lab Sample ID: 880-6278-113

Date Collected: 09/16/21 13:10

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 00:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 00:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 00:46	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 14:00	09/24/21 00:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 00:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 14:00	09/24/21 00:46	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 14:00	09/24/21 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/20/21 14:00	09/24/21 00:46	1
1,4-Difluorobenzene (Surr)	75		70 - 130	09/20/21 14:00	09/24/21 00:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 17:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 17:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 15:51	09/23/21 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	09/21/21 15:51	09/23/21 17:03	1
o-Terphenyl (Surr)	108		70 - 130	09/21/21 15:51	09/23/21 17:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.7		4.98	mg/Kg			09/24/21 08:13	1

Client Sample ID: C-436

Lab Sample ID: 880-6278-114

Date Collected: 09/16/21 13:15

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 01:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 01:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 01:06	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/20/21 14:00	09/24/21 01:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 01:06	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/20/21 14:00	09/24/21 01:06	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/20/21 14:00	09/24/21 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/20/21 14:00	09/24/21 01:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/20/21 14:00	09/24/21 01:06	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-436

Lab Sample ID: 880-6278-114

Date Collected: 09/16/21 13:15

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 17:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 17:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/21/21 15:51	09/23/21 17:25	1
o-Terphenyl (Surr)	106		70 - 130			09/21/21 15:51	09/23/21 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.0		4.95	mg/Kg			09/24/21 08:17	1

Client Sample ID: C-437

Lab Sample ID: 880-6278-115

Date Collected: 09/16/21 13:20

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 01:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 01:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 01:27	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/20/21 14:00	09/24/21 01:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 01:27	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/20/21 14:00	09/24/21 01:27	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/20/21 14:00	09/24/21 01:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			09/20/21 14:00	09/24/21 01:27	1
1,4-Difluorobenzene (Surr)	71		70 - 130			09/20/21 14:00	09/24/21 01:27	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 17:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 17:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 17:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			09/21/21 15:51	09/23/21 17:47	1
o-Terphenyl (Surr)	116		70 - 130			09/21/21 15:51	09/23/21 17:47	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-437

Lab Sample ID: 880-6278-115

Date Collected: 09/16/21 13:20

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.2		5.00	mg/Kg			09/24/21 08:22	1

Client Sample ID: C-438

Lab Sample ID: 880-6278-116

Date Collected: 09/16/21 13:25

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 01:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 01:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 01:47	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/20/21 14:00	09/24/21 01:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/24/21 01:47	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/21 14:00	09/24/21 01:47	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/20/21 14:00	09/24/21 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/20/21 14:00	09/24/21 01:47	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/20/21 14:00	09/24/21 01:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 18:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 18:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130	09/21/21 15:51	09/23/21 18:08	1
o-Terphenyl (Surr)	118		70 - 130	09/21/21 15:51	09/23/21 18:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.8		5.01	mg/Kg			09/24/21 08:37	1

Client Sample ID: C-439

Lab Sample ID: 880-6278-117

Date Collected: 09/16/21 13:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/24/21 02:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/24/21 02:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/24/21 02:07	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 14:00	09/24/21 02:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/24/21 02:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 14:00	09/24/21 02:07	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-439

Lab Sample ID: 880-6278-117

Date Collected: 09/16/21 13:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 14:00	09/24/21 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/20/21 14:00	09/24/21 02:07	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/20/21 14:00	09/24/21 02:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 18:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 18:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 18:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/21/21 15:51	09/23/21 18:29	1
o-Terphenyl (Surr)	113		70 - 130			09/21/21 15:51	09/23/21 18:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.2		4.97	mg/Kg			09/24/21 08:42	1

Client Sample ID: C-440

Lab Sample ID: 880-6278-118

Date Collected: 09/16/21 13:35

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/24/21 02:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/24/21 02:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/24/21 02:28	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/20/21 14:00	09/24/21 02:28	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/21 14:00	09/24/21 02:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/21 14:00	09/24/21 02:28	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/20/21 14:00	09/24/21 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/20/21 14:00	09/24/21 02:28	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/20/21 14:00	09/24/21 02:28	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 18:50	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-440

Lab Sample ID: 880-6278-118

Date Collected: 09/16/21 13:35

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 18:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 18:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			09/21/21 15:51	09/23/21 18:50	1
o-Terphenyl (Surr)	120		70 - 130			09/21/21 15:51	09/23/21 18:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.7		4.95	mg/Kg			09/24/21 08:57	1

Client Sample ID: C-441

Lab Sample ID: 880-6278-119

Date Collected: 09/16/21 13:40

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/24/21 02:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/24/21 02:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/24/21 02:48	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/24/21 02:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/24/21 02:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/24/21 02:48	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/24/21 02:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130			09/20/21 14:00	09/24/21 02:48	1
1,4-Difluorobenzene (Surr)	108		70 - 130			09/20/21 14:00	09/24/21 02:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 19:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 19:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 15:51	09/23/21 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			09/21/21 15:51	09/23/21 19:11	1
o-Terphenyl (Surr)	120		70 - 130			09/21/21 15:51	09/23/21 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.7		4.98	mg/Kg			09/24/21 09:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-442

Lab Sample ID: 880-6278-120

Date Collected: 09/16/21 13:45

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/24/21 03:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/24/21 03:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/24/21 03:09	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/24/21 03:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/21 14:00	09/24/21 03:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/24/21 03:09	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/20/21 14:00	09/24/21 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/20/21 14:00	09/24/21 03:09	1
1,4-Difluorobenzene (Surr)	73		70 - 130	09/20/21 14:00	09/24/21 03:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 19:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 19:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	09/21/21 15:51	09/23/21 19:32	1
o-Terphenyl (Surr)	122		70 - 130	09/21/21 15:51	09/23/21 19:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.0		5.00	mg/Kg			09/24/21 09:07	1

Client Sample ID: C-443

Lab Sample ID: 880-6278-121

Date Collected: 09/16/21 13:50

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199	mg/Kg		09/22/21 08:56	09/22/21 19:37	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		09/22/21 08:56	09/22/21 19:37	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		09/22/21 08:56	09/22/21 19:37	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		09/22/21 08:56	09/22/21 19:37	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		09/22/21 08:56	09/22/21 19:37	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		09/22/21 08:56	09/22/21 19:37	1
Total BTEX	<0.00398	U *1 F1 F2	0.00398	mg/Kg		09/22/21 08:56	09/22/21 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	09/22/21 08:56	09/22/21 19:37	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/22/21 08:56	09/22/21 19:37	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-443

Lab Sample ID: 880-6278-121

Date Collected: 09/16/21 13:50

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 11:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 11:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 11:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			09/22/21 08:42	09/23/21 11:40	1
o-Terphenyl (Surr)	119		70 - 130			09/22/21 08:42	09/23/21 11:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.3		5.00	mg/Kg			09/24/21 09:12	1

Client Sample ID: C-444

Lab Sample ID: 880-6278-122

Date Collected: 09/16/21 13:55

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/22/21 19:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/22/21 19:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/22/21 19:58	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/22/21 08:56	09/22/21 19:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/22/21 19:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/22/21 08:56	09/22/21 19:58	1
Total BTEX	<0.00398	U *1	0.00398	mg/Kg		09/22/21 08:56	09/22/21 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			09/22/21 08:56	09/22/21 19:58	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/22/21 08:56	09/22/21 19:58	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 12:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 12:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			09/22/21 08:42	09/23/21 12:44	1
o-Terphenyl (Surr)	109		70 - 130			09/22/21 08:42	09/23/21 12:44	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-444

Lab Sample ID: 880-6278-122

Date Collected: 09/16/21 13:55

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.6		5.00	mg/Kg			09/24/21 09:17	1

Client Sample ID: C-445

Lab Sample ID: 880-6278-123

Date Collected: 09/16/21 14:00

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/22/21 08:56	09/22/21 20:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/22/21 08:56	09/22/21 20:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/22/21 08:56	09/22/21 20:19	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/22/21 08:56	09/22/21 20:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/22/21 08:56	09/22/21 20:19	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/22/21 08:56	09/22/21 20:19	1
Total BTEX	<0.00396	U *1	0.00396	mg/Kg		09/22/21 08:56	09/22/21 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	09/22/21 08:56	09/22/21 20:19	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/22/21 08:56	09/22/21 20:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 13:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 13:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	09/22/21 08:42	09/23/21 13:05	1
o-Terphenyl (Surr)	97		70 - 130	09/22/21 08:42	09/23/21 13:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.2		4.99	mg/Kg			09/24/21 09:22	1

Client Sample ID: C-446

Lab Sample ID: 880-6278-124

Date Collected: 09/16/21 14:05

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/22/21 20:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/22/21 20:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/22/21 20:39	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/22/21 08:56	09/22/21 20:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/22/21 20:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/22/21 08:56	09/22/21 20:39	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-446

Lab Sample ID: 880-6278-124

Date Collected: 09/16/21 14:05

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U *1	0.00398	mg/Kg		09/22/21 08:56	09/22/21 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/22/21 08:56	09/22/21 20:39	1
1,4-Difluorobenzene (Surr)	88		70 - 130	09/22/21 08:56	09/22/21 20:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 13:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 13:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 13:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			09/22/21 08:42	09/23/21 13:27	1
o-Terphenyl (Surr)	83		70 - 130			09/22/21 08:42	09/23/21 13:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.8		4.97	mg/Kg			09/24/21 09:27	1

Client Sample ID: C-447

Lab Sample ID: 880-6278-125

Date Collected: 09/16/21 14:10

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/22/21 21:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/22/21 21:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/22/21 21:00	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/22/21 08:56	09/22/21 21:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/22/21 21:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/22/21 08:56	09/22/21 21:00	1
Total BTEX	<0.00398	U *1	0.00398	mg/Kg		09/22/21 08:56	09/22/21 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/22/21 08:56	09/22/21 21:00	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/22/21 08:56	09/22/21 21:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 13:49	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-447

Lab Sample ID: 880-6278-125

Date Collected: 09/16/21 14:10

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 13:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 13:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/22/21 08:42	09/23/21 13:49	1
o-Terphenyl (Surr)	106		70 - 130			09/22/21 08:42	09/23/21 13:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.4		5.00	mg/Kg			09/24/21 09:40	1

Client Sample ID: C-448

Lab Sample ID: 880-6278-126

Date Collected: 09/16/21 14:15

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 21:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 21:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 21:21	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/22/21 08:56	09/22/21 21:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 21:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/22/21 08:56	09/22/21 21:21	1
Total BTEX	<0.00401	U *1	0.00401	mg/Kg		09/22/21 08:56	09/22/21 21:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			09/22/21 08:56	09/22/21 21:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130			09/22/21 08:56	09/22/21 21:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 14:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 14:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 14:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			09/22/21 08:42	09/23/21 14:10	1
o-Terphenyl (Surr)	112		70 - 130			09/22/21 08:42	09/23/21 14:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.5		4.99	mg/Kg			09/24/21 10:01	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-449

Lab Sample ID: 880-6278-127

Date Collected: 09/16/21 14:20

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/22/21 08:56	09/22/21 21:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/22/21 08:56	09/22/21 21:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/22/21 08:56	09/22/21 21:42	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/22/21 08:56	09/22/21 21:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/22/21 08:56	09/22/21 21:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/22/21 08:56	09/22/21 21:42	1
Total BTEX	<0.00402	U *1	0.00402	mg/Kg		09/22/21 08:56	09/22/21 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/22/21 08:56	09/22/21 21:42	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/22/21 08:56	09/22/21 21:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 14:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	09/22/21 08:42	09/23/21 14:32	1
o-Terphenyl (Surr)	103		70 - 130	09/22/21 08:42	09/23/21 14:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		4.98	mg/Kg			09/24/21 10:07	1

Client Sample ID: C-450

Lab Sample ID: 880-6278-128

Date Collected: 09/16/21 14:25

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 22:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 22:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 22:03	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/22/21 08:56	09/22/21 22:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 22:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/22/21 08:56	09/22/21 22:03	1
Total BTEX	<0.00399	U *1	0.00399	mg/Kg		09/22/21 08:56	09/22/21 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	09/22/21 08:56	09/22/21 22:03	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/22/21 08:56	09/22/21 22:03	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-450

Lab Sample ID: 880-6278-128

Date Collected: 09/16/21 14:25

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 14:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 14:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/22/21 08:42	09/23/21 14:53	1
o-Terphenyl (Surr)	102		70 - 130			09/22/21 08:42	09/23/21 14:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.1		4.95	mg/Kg			09/24/21 10:12	1

Client Sample ID: C-451

Lab Sample ID: 880-6278-129

Date Collected: 09/16/21 14:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/22/21 08:56	09/22/21 22:23	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/22/21 08:56	09/22/21 22:23	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/22/21 08:56	09/22/21 22:23	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/22/21 08:56	09/22/21 22:23	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/22/21 08:56	09/22/21 22:23	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/22/21 08:56	09/22/21 22:23	1
Total BTEX	<0.00403	U *1	0.00403	mg/Kg		09/22/21 08:56	09/22/21 22:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			09/22/21 08:56	09/22/21 22:23	1
1,4-Difluorobenzene (Surr)	87		70 - 130			09/22/21 08:56	09/22/21 22:23	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 15:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 15:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 15:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			09/22/21 08:42	09/23/21 15:15	1
o-Terphenyl (Surr)	98		70 - 130			09/22/21 08:42	09/23/21 15:15	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-451

Lab Sample ID: 880-6278-129

Date Collected: 09/16/21 14:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.1		4.99	mg/Kg			09/24/21 10:18	1

Client Sample ID: C-452

Lab Sample ID: 880-6278-130

Date Collected: 09/16/21 14:35

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 22:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 22:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 22:44	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/22/21 08:56	09/22/21 22:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 22:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/22/21 08:56	09/22/21 22:44	1
Total BTEX	<0.00400	U *1	0.00400	mg/Kg		09/22/21 08:56	09/22/21 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/22/21 08:56	09/22/21 22:44	1
1,4-Difluorobenzene (Surr)	83		70 - 130	09/22/21 08:56	09/22/21 22:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 15:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 15:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	09/22/21 08:42	09/23/21 15:37	1
o-Terphenyl (Surr)	105		70 - 130	09/22/21 08:42	09/23/21 15:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		5.05	mg/Kg			09/24/21 10:35	1

Client Sample ID: C-453

Lab Sample ID: 880-6278-131

Date Collected: 09/16/21 14:40

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/23/21 00:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/23/21 00:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/23/21 00:06	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/22/21 08:56	09/23/21 00:06	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/23/21 00:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/22/21 08:56	09/23/21 00:06	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-453

Lab Sample ID: 880-6278-131

Date Collected: 09/16/21 14:40

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U *1	0.00398	mg/Kg		09/22/21 08:56	09/23/21 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/22/21 08:56	09/23/21 00:06	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/22/21 08:56	09/23/21 00:06	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 16:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 16:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 16:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			09/22/21 08:42	09/23/21 16:20	1
o-Terphenyl (Surr)	108		70 - 130			09/22/21 08:42	09/23/21 16:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.2		5.02	mg/Kg			09/24/21 10:40	1

Client Sample ID: C-454

Lab Sample ID: 880-6278-132

Date Collected: 09/16/21 14:45

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/22/21 08:56	09/23/21 00:27	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/22/21 08:56	09/23/21 00:27	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/22/21 08:56	09/23/21 00:27	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/22/21 08:56	09/23/21 00:27	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/22/21 08:56	09/23/21 00:27	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/22/21 08:56	09/23/21 00:27	1
Total BTEX	<0.00402	U *1	0.00402	mg/Kg		09/22/21 08:56	09/23/21 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	09/22/21 08:56	09/23/21 00:27	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/22/21 08:56	09/23/21 00:27	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 16:42	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-454

Lab Sample ID: 880-6278-132

Date Collected: 09/16/21 14:45

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 16:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 16:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			09/22/21 08:42	09/23/21 16:42	1
o-Terphenyl (Surr)	81		70 - 130			09/22/21 08:42	09/23/21 16:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.8		4.98	mg/Kg			09/24/21 10:46	1

Client Sample ID: C-455

Lab Sample ID: 880-6278-133

Date Collected: 09/16/21 14:50

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00423		0.00199	mg/Kg		09/22/21 08:56	09/23/21 00:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/23/21 00:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/23/21 00:47	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/22/21 08:56	09/23/21 00:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/23/21 00:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/22/21 08:56	09/23/21 00:47	1
Total BTEX	0.00423	*1	0.00398	mg/Kg		09/22/21 08:56	09/23/21 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			09/22/21 08:56	09/23/21 00:47	1
1,4-Difluorobenzene (Surr)	86		70 - 130			09/22/21 08:56	09/23/21 00:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 17:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 17:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/22/21 08:42	09/23/21 17:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			09/22/21 08:42	09/23/21 17:03	1
o-Terphenyl (Surr)	103		70 - 130			09/22/21 08:42	09/23/21 17:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.0		4.95	mg/Kg			09/24/21 10:52	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-456

Lab Sample ID: 880-6278-134

Date Collected: 09/16/21 14:55

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 01:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 01:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 01:08	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/22/21 08:56	09/23/21 01:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 01:08	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/22/21 08:56	09/23/21 01:08	1
Total BTEX	<0.00399	U *1	0.00399	mg/Kg		09/22/21 08:56	09/23/21 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/22/21 08:56	09/23/21 01:08	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/22/21 08:56	09/23/21 01:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 17:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 17:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130	09/22/21 08:42	09/23/21 17:25	1
o-Terphenyl (Surr)	77		70 - 130	09/22/21 08:42	09/23/21 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.6		5.04	mg/Kg			09/24/21 10:57	1

Client Sample ID: C-457

Lab Sample ID: 880-6278-135

Date Collected: 09/16/21 15:00

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 01:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 01:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 01:28	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/22/21 08:56	09/23/21 01:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 01:28	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/22/21 08:56	09/23/21 01:28	1
Total BTEX	<0.00401	U *1	0.00401	mg/Kg		09/22/21 08:56	09/23/21 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/22/21 08:56	09/23/21 01:28	1
1,4-Difluorobenzene (Surr)	71		70 - 130	09/22/21 08:56	09/23/21 01:28	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-457

Lab Sample ID: 880-6278-135

Date Collected: 09/16/21 15:00

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 17:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 17:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 17:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			09/22/21 08:42	09/23/21 17:47	1
o-Terphenyl (Surr)	85		70 - 130			09/22/21 08:42	09/23/21 17:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.4		4.97	mg/Kg			09/24/21 11:03	1

Client Sample ID: C-458

Lab Sample ID: 880-6278-136

Date Collected: 09/16/21 15:05

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/23/21 01:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/23/21 01:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/23/21 01:49	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/22/21 08:56	09/23/21 01:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/22/21 08:56	09/23/21 01:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/22/21 08:56	09/23/21 01:49	1
Total BTEX	<0.00398	U *1	0.00398	mg/Kg		09/22/21 08:56	09/23/21 01:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			09/22/21 08:56	09/23/21 01:49	1
1,4-Difluorobenzene (Surr)	106		70 - 130			09/22/21 08:56	09/23/21 01:49	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 18:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 18:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 18:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			09/22/21 08:42	09/23/21 18:08	1
o-Terphenyl (Surr)	111		70 - 130			09/22/21 08:42	09/23/21 18:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-458

Lab Sample ID: 880-6278-136

Date Collected: 09/16/21 15:05

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.7		5.00	mg/Kg			09/24/21 11:20	1

Client Sample ID: C-459

Lab Sample ID: 880-6278-137

Date Collected: 09/16/21 15:10

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 02:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 02:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 02:10	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/22/21 08:56	09/23/21 02:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 02:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/22/21 08:56	09/23/21 02:10	1
Total BTEX	<0.00400	U *1	0.00400	mg/Kg		09/22/21 08:56	09/23/21 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/22/21 08:56	09/23/21 02:10	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/22/21 08:56	09/23/21 02:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 18:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 18:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130	09/22/21 08:42	09/23/21 18:29	1
o-Terphenyl (Surr)	120		70 - 130	09/22/21 08:42	09/23/21 18:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.3		4.99	mg/Kg			09/24/21 11:25	1

Client Sample ID: C-460

Lab Sample ID: 880-6278-138

Date Collected: 09/16/21 15:15

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 02:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 02:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 02:30	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/22/21 08:56	09/23/21 02:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/23/21 02:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/22/21 08:56	09/23/21 02:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-460

Lab Sample ID: 880-6278-138

Date Collected: 09/16/21 15:15

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U *1	0.00400	mg/Kg		09/22/21 08:56	09/23/21 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/22/21 08:56	09/23/21 02:30	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/22/21 08:56	09/23/21 02:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method: 8010D NM - Diesel Range Organics (DRO) (CO)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 18:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 18:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 18:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			09/22/21 08:42	09/23/21 18:50	1
o-Terphenyl (Surr)	119		70 - 130			09/22/21 08:42	09/23/21 18:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.1		4.95	mg/Kg			09/24/21 11:42	1

Client Sample ID: C-461

Lab Sample ID: 880-6278-139

Date Collected: 09/16/21 15:20

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/22/21 08:56	09/23/21 02:51	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/22/21 08:56	09/23/21 02:51	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/22/21 08:56	09/23/21 02:51	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/22/21 08:56	09/23/21 02:51	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/22/21 08:56	09/23/21 02:51	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/22/21 08:56	09/23/21 02:51	1
Total BTEX	<0.00396	U *1	0.00396	mg/Kg		09/22/21 08:56	09/23/21 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/22/21 08:56	09/23/21 02:51	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/22/21 08:56	09/23/21 02:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 19:11	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-461

Lab Sample ID: 880-6278-139

Date Collected: 09/16/21 15:20

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 19:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/22/21 08:42	09/23/21 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			09/22/21 08:42	09/23/21 19:11	1
o-Terphenyl (Surr)	105		70 - 130			09/22/21 08:42	09/23/21 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.3		4.95	mg/Kg			09/24/21 11:48	1

Client Sample ID: C-462

Lab Sample ID: 880-6278-140

Date Collected: 09/16/21 15:25

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/22/21 08:56	09/23/21 03:11	1
Toluene	0.00322		0.00202	mg/Kg		09/22/21 08:56	09/23/21 03:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/22/21 08:56	09/23/21 03:11	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/22/21 08:56	09/23/21 03:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/22/21 08:56	09/23/21 03:11	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/22/21 08:56	09/23/21 03:11	1
Total BTEX	<0.00403	U *1	0.00403	mg/Kg		09/22/21 08:56	09/23/21 03:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			09/22/21 08:56	09/23/21 03:11	1
1,4-Difluorobenzene (Surr)	91		70 - 130			09/22/21 08:56	09/23/21 03:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 19:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 19:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 19:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			09/22/21 08:42	09/23/21 19:32	1
o-Terphenyl (Surr)	114		70 - 130			09/22/21 08:42	09/23/21 19:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.7		4.95	mg/Kg			09/24/21 11:53	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-463

Lab Sample ID: 880-6278-141

Date Collected: 09/16/21 15:30

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		09/21/21 09:40	09/21/21 18:24	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		09/21/21 09:40	09/21/21 18:24	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		09/21/21 09:40	09/21/21 18:24	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		09/21/21 09:40	09/21/21 18:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/21/21 09:40	09/21/21 18:24	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		09/21/21 09:40	09/21/21 18:24	1
Total BTEX	<0.00398	U F2 F1	0.00398	mg/Kg		09/21/21 09:40	09/21/21 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	09/21/21 09:40	09/21/21 18:24	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/21/21 09:40	09/21/21 18:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/22/21 08:56	09/22/21 21:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/22/21 08:56	09/22/21 21:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/22/21 08:56	09/22/21 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130	09/22/21 08:56	09/22/21 21:12	1
o-Terphenyl (Surr)	118		70 - 130	09/22/21 08:56	09/22/21 21:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.8		5.05	mg/Kg			09/24/21 11:59	1

Client Sample ID: C-464

Lab Sample ID: 880-6278-142

Date Collected: 09/16/21 15:35

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/21/21 09:40	09/21/21 18:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/21/21 09:40	09/21/21 18:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/21/21 09:40	09/21/21 18:44	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/21/21 09:40	09/21/21 18:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/21/21 09:40	09/21/21 18:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/21/21 09:40	09/21/21 18:44	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/21/21 09:40	09/21/21 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	09/21/21 09:40	09/21/21 18:44	1
1,4-Difluorobenzene (Surr)	75		70 - 130	09/21/21 09:40	09/21/21 18:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-464

Lab Sample ID: 880-6278-142

Date Collected: 09/16/21 15:35

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/22/21 08:56	09/22/21 22:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/22/21 08:56	09/22/21 22:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/21 08:56	09/22/21 22:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			09/22/21 08:56	09/22/21 22:17	1
o-Terphenyl (Surr)	116		70 - 130			09/22/21 08:56	09/22/21 22:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.2		4.97	mg/Kg			09/24/21 12:04	1

Client Sample ID: C-465

Lab Sample ID: 880-6278-143

Date Collected: 09/16/21 15:40

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/21/21 09:40	09/21/21 19:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/21/21 09:40	09/21/21 19:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/21/21 09:40	09/21/21 19:05	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/21/21 09:40	09/21/21 19:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/21/21 09:40	09/21/21 19:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/21/21 09:40	09/21/21 19:05	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/21/21 09:40	09/21/21 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			09/21/21 09:40	09/21/21 19:05	1
1,4-Difluorobenzene (Surr)	75		70 - 130			09/21/21 09:40	09/21/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/22/21 08:56	09/22/21 22:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/22/21 08:56	09/22/21 22:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/22/21 08:56	09/22/21 22:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			09/22/21 08:56	09/22/21 22:38	1
o-Terphenyl (Surr)	114		70 - 130			09/22/21 08:56	09/22/21 22:38	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-465

Lab Sample ID: 880-6278-143

Date Collected: 09/16/21 15:40

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.28		4.96	mg/Kg			09/24/21 12:10	1

Client Sample ID: C-466

Lab Sample ID: 880-6278-144

Date Collected: 09/16/21 15:45

Matrix: Solid

Date Received: 09/20/21 12:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/21/21 09:40	09/21/21 19:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/21/21 09:40	09/21/21 19:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/21/21 09:40	09/21/21 19:25	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/21/21 09:40	09/21/21 19:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/21/21 09:40	09/21/21 19:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/21/21 09:40	09/21/21 19:25	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/21/21 09:40	09/21/21 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	09/21/21 09:40	09/21/21 19:25	1
1,4-Difluorobenzene (Surr)	78		70 - 130	09/21/21 09:40	09/21/21 19:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/29/21 16:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/22/21 08:56	09/22/21 22:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/22/21 08:56	09/22/21 22:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/22/21 08:56	09/22/21 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130	09/22/21 08:56	09/22/21 22:59	1
o-Terphenyl (Surr)	125		70 - 130	09/22/21 08:56	09/22/21 22:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.2		4.95	mg/Kg			09/24/21 12:16	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-6278-1	C-323	128	125
880-6278-1 MS	C-323	136 S1+	74
880-6278-1 MSD	C-323	103	80
880-6278-2	C-324	107	80
880-6278-3	C-325	109	78
880-6278-4	C-326	105	94
880-6278-5	C-327	106	103
880-6278-6	C-328	95	89
880-6278-7	C-329	97	83
880-6278-8	C-330	104	99
880-6278-9	C-331	95	97
880-6278-10	C-332	93	88
880-6278-11	C-333	86	82
880-6278-12	C-334	113	98
880-6278-13	C-335	102	85
880-6278-14	C-336	100	99
880-6278-15	C-337	106	95
880-6278-16	C-338	107	82
880-6278-17	C-339	101	100
880-6278-18	C-340	100	103
880-6278-19	C-341	114	119
880-6278-20	C-342	99	91
880-6278-21	C-343	104	82
880-6278-22	C-344	124	69 S1-
880-6278-23	C-345	100	71
880-6278-24	C-346	122	118
880-6278-25	C-347	102	99
880-6278-26	C-348	94	107
880-6278-27	C-349	84	89
880-6278-28	C-350	93	99
880-6278-29	C-351	104	87
880-6278-30	C-352	90	107
880-6278-31	C-353	101	118
880-6278-32	C-354	121	112
880-6278-33	C-355	103	81
880-6278-34	C-356	111	116
880-6278-35	C-357	96	88
880-6278-36	C-358	107	120
880-6278-37	C-359	112	99
880-6278-38	C-360	105	80
880-6278-39	C-361	113	83
880-6278-40	C-362	115	95
880-6278-41	C-363	106	224 S1+
880-6278-41 MS	C-363	102	309 S1+
880-6278-41 MSD	C-363	89	293 S1+
880-6278-42	C-364	101	267 S1+
880-6278-43	C-365	125	288 S1+
880-6278-44	C-366	114	272 S1+
880-6278-45	C-367	100	253 S1+

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6278-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-6278-46	C-368	106	256 S1+
880-6278-47	C-369	121	297 S1+
880-6278-48	C-370	112	308 S1+
880-6278-49	C-371	124	312 S1+
880-6278-50	C-372	112	265 S1+
880-6278-51	C-373	117	235 S1+
880-6278-52	C-374	109	302 S1+
880-6278-53	C-375	110	254 S1+
880-6278-54	C-376	100	297 S1+
880-6278-55	C-377	100	291 S1+
880-6278-56	C-378	119	306 S1+
880-6278-57	C-379	126	308 S1+
880-6278-58	C-380	109	308 S1+
880-6278-59	C-381	106	318 S1+
880-6278-60	C-382	131 S1+	315 S1+
880-6278-61	C-383	151 S1+	255 S1+
880-6278-61 MS	C-383	114	353 S1+
880-6278-61 MSD	C-383	139 S1+	344 S1+
880-6278-62	C-384	101	247 S1+
880-6278-63	C-385	111	314 S1+
880-6278-64	C-386	114	330 S1+
880-6278-65	C-387	104	250 S1+
880-6278-66	C-388	122	337 S1+
880-6278-67	C-389	118	357 S1+
880-6278-68	C-390	124	371 S1+
880-6278-69	C-391	121	355 S1+
880-6278-70	C-392	144 S1+	367 S1+
880-6278-71	C-393	119	102
880-6278-71 MS	C-393	0 S1-	0 S1-
880-6278-71 MSD	C-393	0 S1-	0 S1-
880-6278-72	C-394	159 S1+	84
880-6278-73	C-395	130	103
880-6278-74	C-396	149 S1+	102
880-6278-75	C-397	115	77
880-6278-76	C-398	190 S1+	85
880-6278-77	C-399	118	101
880-6278-78	C-400	128	114
880-6278-79	C-401	97	76
880-6278-80	C-402	108	77
880-6278-81	C-403	137 S1+	101
880-6278-81 MS	C-403	137 S1+	94
880-6278-81 MSD	C-403	120	102
880-6278-82	C-404	88	105
880-6278-83	C-405	134 S1+	94
880-6278-84	C-406	138 S1+	100
880-6278-85	C-407	119	100
880-6278-86	C-408	122	98
880-6278-87	C-409	115	112
880-6278-88	C-410	113	100
880-6278-89	C-411	95	87

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6278-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-6278-90	C-412	111	82
880-6278-91	C-413	136 S1+	94
880-6278-92	C-414	121	74
880-6278-92 MS	C-414	116	84
880-6278-92 MSD	C-414	122	71
880-6278-93	C-415	117	103
880-6278-94	C-416	114	102
880-6278-95	C-417	129	91
880-6278-96	C-418	113	107
880-6278-97	C-419	140 S1+	88
880-6278-98	C-420	117	93
880-6278-99	C-421	125	99
880-6278-100	C-422	139 S1+	97
880-6278-101	C-423	120	92
880-6278-101 MS	C-423	118	108
880-6278-101 MSD	C-423	122	124
880-6278-102	C-424	120	105
880-6278-103	C-425	114	99
880-6278-104	C-426	105	112
880-6278-105	C-427	122	118
880-6278-106	C-428	132 S1+	106
880-6278-107	C-429	117	97
880-6278-108	C-430	104	106
880-6278-109	C-431	129	107
880-6278-110	C-432	92	94
880-6278-111	C-433	112	102
880-6278-112	C-434	89	72
880-6278-113	C-435	103	75
880-6278-114	C-436	110	94
880-6278-115	C-437	94	71
880-6278-116	C-438	104	108
880-6278-117	C-439	115	93
880-6278-118	C-440	105	100
880-6278-119	C-441	144 S1+	108
880-6278-120	C-442	93	73
880-6278-121	C-443	88	95
880-6278-121 MS	C-443	94	1 S1-
880-6278-121 MSD	C-443	115	122
880-6278-122	C-444	97	102
880-6278-123	C-445	96	102
880-6278-124	C-446	102	88
880-6278-125	C-447	105	103
880-6278-126	C-448	94	101
880-6278-127	C-449	103	92
880-6278-128	C-450	96	95
880-6278-129	C-451	97	87
880-6278-130	C-452	103	83
880-6278-131	C-453	103	86
880-6278-132	C-454	97	90
880-6278-133	C-455	98	86

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6278-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-6278-134	C-456	106	85
880-6278-135	C-457	105	71
880-6278-136	C-458	120	106
880-6278-137	C-459	109	85
880-6278-138	C-460	104	89
880-6278-139	C-461	103	97
880-6278-140	C-462	117	91
880-6278-141	C-463	122	76
880-6278-141 MS	C-463	121	85
880-6278-141 MSD	C-463	117	79
880-6278-142	C-464	133 S1+	75
880-6278-143	C-465	127	75
880-6278-144	C-466	130	78
890-1289-A-1-F MSD	Matrix Spike Duplicate	130	80
LCS 880-8102/1-B	Lab Control Sample	109	88
LCS 880-8135/1-A	Lab Control Sample	119	70
LCS 880-8136/1-A	Lab Control Sample	95	79
LCS 880-8137/1-A	Lab Control Sample	109	133 S1+
LCS 880-8138/1-A	Lab Control Sample	111	321 S1+
LCS 880-8139/1-A	Lab Control Sample	104	93
LCS 880-8141/1-A	Lab Control Sample	98	94
LCS 880-8241/1-A	Lab Control Sample	98	93
LCS 880-8243/1-A	Lab Control Sample	125	76
LCS 880-8251/1-A	Lab Control Sample	101	88
LCS 880-8359/1-A	Lab Control Sample	114	86
LCSD 880-8102/2-B	Lab Control Sample Dup	111	87
LCSD 880-8135/2-A	Lab Control Sample Dup	115	91
LCSD 880-8136/2-A	Lab Control Sample Dup	100	76
LCSD 880-8137/2-A	Lab Control Sample Dup	117	242 S1+
LCSD 880-8138/2-A	Lab Control Sample Dup	110	312 S1+
LCSD 880-8139/2-A	Lab Control Sample Dup	103	97
LCSD 880-8141/2-A	Lab Control Sample Dup	94	87
LCSD 880-8241/2-A	Lab Control Sample Dup	115	118
LCSD 880-8243/2-A	Lab Control Sample Dup	123	100
LCSD 880-8251/2-A	Lab Control Sample Dup	104	86
LCSD 880-8359/2-A	Lab Control Sample Dup	115	85
MB 880-8102/5-B	Method Blank	109	75
MB 880-8131/5-A	Method Blank	116	98
MB 880-8135/5-A	Method Blank	124	81
MB 880-8136/5-A	Method Blank	102	103
MB 880-8137/5-A	Method Blank	72	238 S1+
MB 880-8138/5-A	Method Blank	76	297 S1+
MB 880-8139/5-A	Method Blank	116	110
MB 880-8141/5-A	Method Blank	109	101
MB 880-8173/5-A	Method Blank	120	127
MB 880-8241/5-A	Method Blank	101	102
MB 880-8243/5-A	Method Blank	108	71
MB 880-8251/5-A	Method Blank	122	102
MB 880-8359/5-A	Method Blank	103	79

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-6278-1	C-323	103	107
880-6278-1 MS	C-323	105	101
880-6278-1 MSD	C-323	104	99
880-6278-2	C-324	99	104
880-6278-3	C-325	116	120
880-6278-4	C-326	100	103
880-6278-5	C-327	99	104
880-6278-6	C-328	112	115
880-6278-7	C-329	98	100
880-6278-8	C-330	94	98
880-6278-9	C-331	112	115
880-6278-10	C-332	113	115
880-6278-11	C-333	116	121
880-6278-12	C-334	110	113
880-6278-13	C-335	98	100
880-6278-14	C-336	114	117
880-6278-15	C-337	94	98
880-6278-16	C-338	97	101
880-6278-17	C-339	116	120
880-6278-18	C-340	107	110
880-6278-19	C-341	121	125
880-6278-20	C-342	98	105
880-6278-21	C-343	105	108
880-6278-21 MS	C-343	104	102
880-6278-21 MSD	C-343	104	99
880-6278-22	C-344	100	104
880-6278-23	C-345	99	103
880-6278-24	C-346	99	103
880-6278-25	C-347	104	108
880-6278-26	C-348	97	99
880-6278-27	C-349	94	96
880-6278-28	C-350	94	97
880-6278-29	C-351	78	83
880-6278-30	C-352	69 S1-	72
880-6278-31	C-353	84	87
880-6278-32	C-354	98	101
880-6278-33	C-355	90	90
880-6278-34	C-356	93	95
880-6278-35	C-357	87	90
880-6278-36	C-358	82	81
880-6278-37	C-359	91	90
880-6278-38	C-360	89	90
880-6278-39	C-361	81	83
880-6278-40	C-362	80	82
880-6278-41	C-363	119	130
880-6278-41 MS	C-363	121	122

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6278-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-6278-41 MSD	C-363	113	116
880-6278-42	C-364	105	115
880-6278-43	C-365	119	134 S1+
880-6278-44	C-366	118	128
880-6278-45	C-367	107	120
880-6278-46	C-368	94	96
880-6278-47	C-369	101	99
880-6278-47 MS	C-369	111	99
880-6278-47 MSD	C-369	119	109
880-6278-48	C-370	104	103
880-6278-49	C-371	106	104
880-6278-50	C-372	108	106
880-6278-51	C-373	104	0.09 S1-
880-6278-52	C-374	105	104
880-6278-53	C-375	82	82
880-6278-54	C-376	86	96
880-6278-54 MS	C-376	97	92
880-6278-54 MSD	C-376	104	91
880-6278-55	C-377	110	125
880-6278-56	C-378	109	109
880-6278-57	C-379	104	109
880-6278-58	C-380	108	0.2 S1-
880-6278-59	C-381	119	131 S1+
880-6278-60	C-382	117	129
880-6278-61	C-383	80	84
880-6278-61 MS	C-383	79	79
880-6278-61 MSD	C-383	90	89
880-6278-62	C-384	80	87
880-6278-63	C-385	80	88
880-6278-64	C-386	81	90
880-6278-65	C-387	80	87
880-6278-66	C-388	80	87
880-6278-67	C-389	92	99
880-6278-68	C-390	84	92
880-6278-69	C-391	82	92
880-6278-70	C-392	93	100
880-6278-71	C-393	84	94
880-6278-72	C-394	78	88
880-6278-73	C-395	97	100
880-6278-74	C-396	83	92
880-6278-75	C-397	79	87
880-6278-76	C-398	91	94
880-6278-77	C-399	71	75
880-6278-78	C-400	78	83
880-6278-79	C-401	78	84
880-6278-80	C-402	93	100
880-6278-81	C-403	110	117
880-6278-81 MS	C-403	110	106
880-6278-81 MS	C-403	114	106
880-6278-81 MSD	C-403	106	103

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6278-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6278-81 MSD	C-403	97	94
880-6278-82	C-404	98	105
880-6278-83	C-405	106	111
880-6278-84	C-406	105	109
880-6278-85	C-407	108	115
880-6278-86	C-408	102	111
880-6278-87	C-409	101	108
880-6278-88	C-410	116	127
880-6278-89	C-411	115	124
880-6278-90	C-412	102	112
880-6278-91	C-413	119	131 S1+
880-6278-92	C-414	109	118
880-6278-93	C-415	113	123
880-6278-94	C-416	116	121
880-6278-95	C-417	92	101
880-6278-96	C-418	102	108
880-6278-97	C-419	102	108
880-6278-98	C-420	96	108
880-6278-99	C-421	121	136 S1+
880-6278-100	C-422	112	123
880-6278-101	C-423	115	122
880-6278-101 MS	C-423	102	97
880-6278-101 MSD	C-423	100	96
880-6278-102	C-424	104	112
880-6278-103	C-425	106	115
880-6278-104	C-426	102	108
880-6278-105	C-427	112	120
880-6278-106	C-428	110	117
880-6278-107	C-429	103	110
880-6278-108	C-430	102	109
880-6278-109	C-431	100	107
880-6278-110	C-432	99	105
880-6278-111	C-433	103	111
880-6278-112	C-434	105	114
880-6278-113	C-435	102	108
880-6278-114	C-436	98	106
880-6278-115	C-437	109	116
880-6278-116	C-438	109	118
880-6278-117	C-439	105	113
880-6278-118	C-440	110	120
880-6278-119	C-441	108	120
880-6278-120	C-442	112	122
880-6278-121	C-443	117	119
880-6278-121 MS	C-443	103	95
880-6278-121 MSD	C-443	100	91
880-6278-122	C-444	109	109
880-6278-123	C-445	98	97
880-6278-124	C-446	85	83
880-6278-125	C-447	105	106
880-6278-126	C-448	109	112

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6278-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6278-127	C-449	103	103
880-6278-128	C-450	101	102
880-6278-129	C-451	99	98
880-6278-130	C-452	105	105
880-6278-131	C-453	109	108
880-6278-132	C-454	81	81
880-6278-133	C-455	103	103
880-6278-134	C-456	80	77
880-6278-135	C-457	86	85
880-6278-136	C-458	109	111
880-6278-137	C-459	119	120
880-6278-138	C-460	116	119
880-6278-139	C-461	100	105
880-6278-140	C-462	116	114
880-6278-141	C-463	114	118
880-6278-141 MS	C-463	100	100
880-6278-141 MSD	C-463	102	96
880-6278-142	C-464	110	116
880-6278-143	C-465	109	114
880-6278-144	C-466	115	125
LCS 880-8195/2-A	Lab Control Sample	100	98
LCS 880-8196/2-A	Lab Control Sample	109	111
LCS 880-8197/2-A	Lab Control Sample	106	106
LCS 880-8199/2-A	Lab Control Sample	95	98
LCS 880-8214/2-A	Lab Control Sample	118	118
LCS 880-8214/2-A	Lab Control Sample	115	107
LCS 880-8217/2-A	Lab Control Sample	120	117
LCS 880-8240/2-A	Lab Control Sample	99	97
LCS 880-8242/2-A	Lab Control Sample	126	123
LCS 880-8426/2-A	Lab Control Sample	128	117
LCS 880-8435/2-A	Lab Control Sample	122	116
LCSD 880-8195/3-A	Lab Control Sample Dup	100	99
LCSD 880-8196/3-A	Lab Control Sample Dup	109	110
LCSD 880-8197/3-A	Lab Control Sample Dup	111	109
LCSD 880-8199/3-A	Lab Control Sample Dup	97	101
LCSD 880-8214/3-A	Lab Control Sample Dup	109	104
LCSD 880-8214/3-A	Lab Control Sample Dup	122	113
LCSD 880-8217/3-A	Lab Control Sample Dup	114	117
LCSD 880-8240/3-A	Lab Control Sample Dup	103	102
LCSD 880-8242/3-A	Lab Control Sample Dup	110	108
LCSD 880-8426/3-A	Lab Control Sample Dup	116	105
LCSD 880-8435/3-A	Lab Control Sample Dup	120	118
MB 880-8195/1-A	Method Blank	105	109
MB 880-8196/1-A	Method Blank	102	118
MB 880-8197/1-A	Method Blank	117	141 S1+
MB 880-8199/1-A	Method Blank	90	102
MB 880-8214/1-A	Method Blank	120	131 S1+
MB 880-8214/1-A	Method Blank	105	114
MB 880-8217/1-A	Method Blank	104	119
MB 880-8240/1-A	Method Blank	105	120

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
MB 880-8242/1-A	Method Blank	108	123
MB 880-8426/1-A	Method Blank	108	113
MB 880-8435/1-A	Method Blank	123	137 S1+
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8102/5-B

Matrix: Solid

Analysis Batch: 8212

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8102

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/21/21 09:40	09/21/21 18:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/21/21 09:40	09/21/21 18:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/21/21 09:40	09/21/21 18:03	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/21/21 09:40	09/21/21 18:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/21/21 09:40	09/21/21 18:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/21/21 09:40	09/21/21 18:03	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/21/21 09:40	09/21/21 18:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/21/21 09:40	09/21/21 18:03	1
1,4-Difluorobenzene (Surr)	75		70 - 130	09/21/21 09:40	09/21/21 18:03	1

Lab Sample ID: LCS 880-8102/1-B

Matrix: Solid

Analysis Batch: 8212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09491		mg/Kg		95	70 - 130
Toluene	0.100	0.09246		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09496		mg/Kg		95	70 - 130
m,p-Xylenes	0.200	0.1981		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09854		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: LCSD 880-8102/2-B

Matrix: Solid

Analysis Batch: 8212

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8102

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09780		mg/Kg		98	70 - 130	3	35
Toluene	0.100	0.09449		mg/Kg		94	70 - 130	2	35
Ethylbenzene	0.100	0.09592		mg/Kg		96	70 - 130	1	35
m,p-Xylenes	0.200	0.2071		mg/Kg		104	70 - 130	4	35
o-Xylene	0.100	0.1033		mg/Kg		103	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-6278-141 MS

Matrix: Solid

Analysis Batch: 8212

Client Sample ID: C-463

Prep Type: Total/NA

Prep Batch: 8102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0998	0.06359	F1	mg/Kg		64	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6278-141 MS

Matrix: Solid

Analysis Batch: 8212

Client Sample ID: C-463

Prep Type: Total/NA

Prep Batch: 8102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00199	U F1	0.0998	0.06489	F1	mg/Kg		65	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.06584	F1	mg/Kg		66	70 - 130
m,p-Xylenes	<0.00398	U F1	0.200	0.1286	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00199	U	0.0998	0.07283		mg/Kg		73	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 880-6278-141 MSD

Matrix: Solid

Analysis Batch: 8212

Client Sample ID: C-463

Prep Type: Total/NA

Prep Batch: 8102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1	0.101	0.08240		mg/Kg		82	70 - 130	26	35
Toluene	<0.00199	U F1	0.101	0.08001		mg/Kg		79	70 - 130	21	35
Ethylbenzene	<0.00199	U F1	0.101	0.08321		mg/Kg		83	70 - 130	23	35
m,p-Xylenes	<0.00398	U F1	0.202	0.1561		mg/Kg		77	70 - 130	19	35
o-Xylene	<0.00199	U	0.101	0.08575		mg/Kg		85	70 - 130	16	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: MB 880-8131/5-A

Matrix: Solid

Analysis Batch: 8145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8131

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 12:43	09/20/21 17:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 12:43	09/20/21 17:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 12:43	09/20/21 17:46	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 12:43	09/20/21 17:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 12:43	09/20/21 17:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 12:43	09/20/21 17:46	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 12:43	09/20/21 17:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/20/21 12:43	09/20/21 17:46	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/20/21 12:43	09/20/21 17:46	1

Lab Sample ID: MB 880-8135/5-A

Matrix: Solid

Analysis Batch: 8145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8135

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 04:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 04:47	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8135/5-A

Matrix: Solid

Analysis Batch: 8145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8135

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 04:47	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 04:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:45	09/21/21 04:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 04:47	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:45	09/21/21 04:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/20/21 13:45	09/21/21 04:47	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/20/21 13:45	09/21/21 04:47	1

Lab Sample ID: LCS 880-8135/1-A

Matrix: Solid

Analysis Batch: 8145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08577		mg/Kg		86	70 - 130
Toluene	0.100	0.1047		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1066		mg/Kg		107	70 - 130
m,p-Xylenes	0.200	0.2062		mg/Kg		103	70 - 130
o-Xylene	0.100	0.09447		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	70		70 - 130

Lab Sample ID: LCSD 880-8135/2-A

Matrix: Solid

Analysis Batch: 8145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8135

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08107		mg/Kg		81	70 - 130	6	35
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	1	35
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130	4	35
m,p-Xylenes	0.200	0.1874		mg/Kg		94	70 - 130	10	35
o-Xylene	0.100	0.09262		mg/Kg		93	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-6278-1 MS

Matrix: Solid

Analysis Batch: 8145

Client Sample ID: C-323

Prep Type: Total/NA

Prep Batch: 8135

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.06276	F1	mg/Kg		62	70 - 130
Toluene	<0.00199	U	0.100	0.07801		mg/Kg		77	70 - 130
Ethylbenzene	0.00330		0.100	0.09100		mg/Kg		87	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6278-1 MS

Matrix: Solid

Analysis Batch: 8145

Client Sample ID: C-323

Prep Type: Total/NA

Prep Batch: 8135

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylenes	<0.00398	U	0.201	0.1703		mg/Kg		84	70 - 130
o-Xylene	<0.00199	U	0.100	0.08020		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Lab Sample ID: 880-6278-1 MSD

Matrix: Solid

Analysis Batch: 8145

Client Sample ID: C-323

Prep Type: Total/NA

Prep Batch: 8135

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.05860	F1	mg/Kg		58	70 - 130	7	35
Toluene	<0.00199	U	0.100	0.08300		mg/Kg		82	70 - 130	6	35
Ethylbenzene	0.00330		0.100	0.08414		mg/Kg		81	70 - 130	8	35
m,p-Xylenes	<0.00398	U	0.200	0.1520		mg/Kg		76	70 - 130	11	35
o-Xylene	<0.00199	U	0.100	0.07347		mg/Kg		73	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: MB 880-8136/5-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8136

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 03:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 03:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 03:11	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:49	09/22/21 03:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:49	09/22/21 03:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:49	09/22/21 03:11	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:49	09/22/21 03:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/20/21 13:49	09/22/21 03:11	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/20/21 13:49	09/22/21 03:11	1

Lab Sample ID: LCS 880-8136/1-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08675		mg/Kg		87	70 - 130
Toluene	0.100	0.08688		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08647		mg/Kg		86	70 - 130
m,p-Xylenes	0.200	0.1787		mg/Kg		89	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8136/1-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.07586		mg/Kg		76	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: LCSD 880-8136/2-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8136

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08300		mg/Kg		83	70 - 130	4	35
Toluene	0.100	0.08569		mg/Kg		86	70 - 130	1	35
Ethylbenzene	0.100	0.08873		mg/Kg		89	70 - 130	3	35
m,p-Xylenes	0.200	0.1649		mg/Kg		82	70 - 130	8	35
o-Xylene	0.100	0.07716		mg/Kg		77	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: MB 880-8137/5-A

Matrix: Solid

Analysis Batch: 8163

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8137

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 13:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 13:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 13:57	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:52	09/21/21 13:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:52	09/21/21 13:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:52	09/21/21 13:57	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:52	09/21/21 13:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	09/20/21 13:52	09/21/21 13:57	1
1,4-Difluorobenzene (Surr)	238	S1+	70 - 130	09/20/21 13:52	09/21/21 13:57	1

Lab Sample ID: LCS 880-8137/1-A

Matrix: Solid

Analysis Batch: 8163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09689		mg/Kg		97	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.09613		mg/Kg		96	70 - 130
m,p-Xylenes	0.200	0.2128		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1035		mg/Kg		104	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130

Lab Sample ID: LCSD 880-8137/2-A

Matrix: Solid

Analysis Batch: 8163

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8137

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1026		mg/Kg		103	70 - 130	6	35
Toluene	0.100	0.1115		mg/Kg		111	70 - 130	11	35
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130	13	35
m,p-Xylenes	0.200	0.2437		mg/Kg		122	70 - 130	14	35
o-Xylene	0.100	0.1200		mg/Kg		120	70 - 130	15	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	242	S1+	70 - 130

Lab Sample ID: 880-6278-41 MS

Matrix: Solid

Analysis Batch: 8163

Client Sample ID: C-363

Prep Type: Total/NA

Prep Batch: 8137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.06465	F1	mg/Kg		64	70 - 130		
Toluene	<0.00199	U	0.100	0.07899		mg/Kg		79	70 - 130		
Ethylbenzene	<0.00199	U	0.100	0.08101		mg/Kg		81	70 - 130		
m,p-Xylenes	<0.00398	U	0.201	0.1779		mg/Kg		89	70 - 130		
o-Xylene	<0.00199	U	0.100	0.08505		mg/Kg		85	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	309	S1+	70 - 130

Lab Sample ID: 880-6278-41 MSD

Matrix: Solid

Analysis Batch: 8163

Client Sample ID: C-363

Prep Type: Total/NA

Prep Batch: 8137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.08581		mg/Kg		86	70 - 130	28	35
Toluene	<0.00199	U	0.100	0.08233		mg/Kg		82	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.100	0.07800		mg/Kg		78	70 - 130	4	35
m,p-Xylenes	<0.00398	U	0.200	0.1723		mg/Kg		86	70 - 130	3	35
o-Xylene	<0.00199	U	0.100	0.08367		mg/Kg		84	70 - 130	2	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	293	S1+	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8138/5-A

Matrix: Solid

Analysis Batch: 8163

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8138

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 03:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 03:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 03:49	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:54	09/22/21 03:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:54	09/22/21 03:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:54	09/22/21 03:49	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:54	09/22/21 03:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	09/20/21 13:54	09/22/21 03:49	1
1,4-Difluorobenzene (Surr)	297	S1+	70 - 130	09/20/21 13:54	09/22/21 03:49	1

Lab Sample ID: LCS 880-8138/1-A

Matrix: Solid

Analysis Batch: 8163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1119		mg/Kg		112	70 - 130
Toluene	0.100	0.1037		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.09958		mg/Kg		100	70 - 130
m,p-Xylenes	0.200	0.2199		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1097		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	321	S1+	70 - 130

Lab Sample ID: LCSD 880-8138/2-A

Matrix: Solid

Analysis Batch: 8163

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8138

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1061		mg/Kg		106	70 - 130	5	35
Toluene	0.100	0.09788		mg/Kg		98	70 - 130	6	35
Ethylbenzene	0.100	0.09581		mg/Kg		96	70 - 130	4	35
m,p-Xylenes	0.200	0.2136		mg/Kg		107	70 - 130	3	35
o-Xylene	0.100	0.1076		mg/Kg		108	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	312	S1+	70 - 130

Lab Sample ID: 880-6278-61 MS

Matrix: Solid

Analysis Batch: 8163

Client Sample ID: C-383

Prep Type: Total/NA

Prep Batch: 8138

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.100	0.07315		mg/Kg		73	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6278-61 MS

Matrix: Solid

Analysis Batch: 8163

Client Sample ID: C-383

Prep Type: Total/NA

Prep Batch: 8138

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00198	U F1	0.100	0.07105		mg/Kg		71	70 - 130
Ethylbenzene	<0.00198	U	0.100	0.06976		mg/Kg		70	70 - 130
m,p-Xylenes	<0.00396	U	0.200	0.1538		mg/Kg		77	70 - 130
o-Xylene	<0.00198	U	0.100	0.07538		mg/Kg		75	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	353	S1+	70 - 130

Lab Sample ID: 880-6278-61 MSD

Matrix: Solid

Analysis Batch: 8163

Client Sample ID: C-383

Prep Type: Total/NA

Prep Batch: 8138

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0996	0.06140	F1	mg/Kg		62	70 - 130	17	35
Toluene	<0.00198	U F1	0.0996	<0.00199	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00198	U	0.0996	0.07030		mg/Kg		71	70 - 130	1	35
m,p-Xylenes	<0.00396	U	0.199	0.1566		mg/Kg		79	70 - 130	2	35
o-Xylene	<0.00198	U	0.0996	0.07847		mg/Kg		79	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130
1,4-Difluorobenzene (Surr)	344	S1+	70 - 130

Lab Sample ID: MB 880-8139/5-A

Matrix: Solid

Analysis Batch: 8218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8139

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 11:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 11:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 11:52	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 13:56	09/22/21 11:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 13:56	09/22/21 11:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 13:56	09/22/21 11:52	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 13:56	09/22/21 11:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/20/21 13:56	09/22/21 11:52	1
1,4-Difluorobenzene (Surr)	110		70 - 130	09/20/21 13:56	09/22/21 11:52	1

Lab Sample ID: LCS 880-8139/1-A

Matrix: Solid

Analysis Batch: 8218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07687		mg/Kg		77	70 - 130
Toluene	0.100	0.08350		mg/Kg		84	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8139/1-A

Matrix: Solid

Analysis Batch: 8218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.08847		mg/Kg		88	70 - 130
m,p-Xylenes	0.200	0.1832		mg/Kg		92	70 - 130
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-8139/2-A

Matrix: Solid

Analysis Batch: 8218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8139

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07966		mg/Kg		80	70 - 130	4	35
Toluene	0.100	0.08064		mg/Kg		81	70 - 130	3	35
Ethylbenzene	0.100	0.08460		mg/Kg		85	70 - 130	4	35
m,p-Xylenes	0.200	0.1667		mg/Kg		83	70 - 130	9	35
o-Xylene	0.100	0.09220		mg/Kg		92	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-6278-81 MS

Matrix: Solid

Analysis Batch: 8218

Client Sample ID: C-403

Prep Type: Total/NA

Prep Batch: 8139

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.01487	F1	mg/Kg		14	70 - 130
Toluene	<0.00199	U F1	0.100	0.02524	F1	mg/Kg		25	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.100	0.02998	F1	mg/Kg		30	70 - 130
m,p-Xylenes	<0.00398	U F1	0.201	0.05871	F1	mg/Kg		29	70 - 130
o-Xylene	<0.00199	U F1 F2	0.100	0.03953	F1	mg/Kg		39	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-6278-81 MSD

Matrix: Solid

Analysis Batch: 8218

Client Sample ID: C-403

Prep Type: Total/NA

Prep Batch: 8139

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1	0.0990	0.01590	F1	mg/Kg		15	70 - 130	7	35
Toluene	<0.00199	U F1	0.0990	0.01860	F1	mg/Kg		19	70 - 130	30	35
Ethylbenzene	<0.00199	U F1 F2	0.0990	0.01977	F1 F2	mg/Kg		20	70 - 130	41	35
m,p-Xylenes	<0.00398	U F1	0.198	0.04264	F1	mg/Kg		22	70 - 130	32	35
o-Xylene	<0.00199	U F1 F2	0.0990	0.02514	F1 F2	mg/Kg		25	70 - 130	45	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-8141/5-A

Matrix: Solid

Analysis Batch: 8326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8141

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/23/21 18:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/23/21 18:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/23/21 18:44	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/20/21 14:00	09/23/21 18:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/21 14:00	09/23/21 18:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/21 14:00	09/23/21 18:44	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/20/21 14:00	09/23/21 18:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/20/21 14:00	09/23/21 18:44	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/20/21 14:00	09/23/21 18:44	1

Lab Sample ID: LCS 880-8141/1-A

Matrix: Solid

Analysis Batch: 8326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08530		mg/Kg		85	70 - 130
Toluene	0.100	0.08880		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.1061		mg/Kg		106	70 - 130
m,p-Xylenes	0.200	0.1919		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09982		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-8141/2-A

Matrix: Solid

Analysis Batch: 8326

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8141

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08427		mg/Kg		84	70 - 130	1	35
Toluene	0.100	0.08747		mg/Kg		87	70 - 130	2	35
Ethylbenzene	0.100	0.1033		mg/Kg		103	70 - 130	3	35
m,p-Xylenes	0.200	0.1870		mg/Kg		94	70 - 130	3	35
o-Xylene	0.100	0.09771		mg/Kg		98	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6278-101 MS

Matrix: Solid

Analysis Batch: 8326

Client Sample ID: C-423

Prep Type: Total/NA

Prep Batch: 8141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1	0.100	0.03583	F1	mg/Kg		36	70 - 130
Toluene	<0.00202	U F2 F1	0.100	0.02207	F1	mg/Kg		21	70 - 130
Ethylbenzene	<0.00202	U F1	0.100	0.03144	F1	mg/Kg		29	70 - 130
m,p-Xylenes	<0.00403	U F1	0.201	0.05164	F1	mg/Kg		26	70 - 130
o-Xylene	<0.00202	U F2 F1	0.100	0.03528	F1	mg/Kg		34	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-6278-101 MSD

Matrix: Solid

Analysis Batch: 8326

Client Sample ID: C-423

Prep Type: Total/NA

Prep Batch: 8141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.100	0.03302	F1	mg/Kg		33	70 - 130	8	35
Toluene	<0.00202	U F2 F1	0.100	0.03485	F2 F1	mg/Kg		34	70 - 130	45	35
Ethylbenzene	<0.00202	U F1	0.100	0.04342	F1	mg/Kg		41	70 - 130	32	35
m,p-Xylenes	<0.00403	U F1	0.201	0.05036	F1	mg/Kg		25	70 - 130	3	35
o-Xylene	<0.00202	U F2 F1	0.100	0.02232	F2 F1	mg/Kg		21	70 - 130	45	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	124		70 - 130

Lab Sample ID: MB 880-8173/5-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8173

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/21/21 09:06	09/21/21 16:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/21/21 09:06	09/21/21 16:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/21/21 09:06	09/21/21 16:11	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/21/21 09:06	09/21/21 16:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/21/21 09:06	09/21/21 16:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/21/21 09:06	09/21/21 16:11	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/21/21 09:06	09/21/21 16:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	09/21/21 09:06	09/21/21 16:11	1
1,4-Difluorobenzene (Surr)	127		70 - 130	09/21/21 09:06	09/21/21 16:11	1

Lab Sample ID: MB 880-8241/5-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8241

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 19:15	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8241/5-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8241

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 19:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 19:15	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/22/21 08:56	09/22/21 19:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:56	09/22/21 19:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/22/21 08:56	09/22/21 19:15	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/22/21 08:56	09/22/21 19:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/22/21 08:56	09/22/21 19:15	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/22/21 08:56	09/22/21 19:15	1

Lab Sample ID: LCS 880-8241/1-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07076		mg/Kg		71	70 - 130
Toluene	0.100	0.08350		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08446		mg/Kg		84	70 - 130
m,p-Xylenes	0.200	0.1532		mg/Kg		77	70 - 130
o-Xylene	0.100	0.07564		mg/Kg		76	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-8241/2-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8241

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08718		mg/Kg		87	70 - 130	21	35
Toluene	0.100	0.1051		mg/Kg		105	70 - 130	23	35
Ethylbenzene	0.100	0.1073		mg/Kg		107	70 - 130	24	35
m,p-Xylenes	0.200	0.1891		mg/Kg		95	70 - 130	21	35
o-Xylene	0.100	0.09066		mg/Kg		91	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-6278-121 MS

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: C-443

Prep Type: Total/NA

Prep Batch: 8241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1 F2	0.100	0.005586	F1	mg/Kg		6	70 - 130
Toluene	<0.00199	U F1	0.100	0.06191	F1	mg/Kg		61	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6278-121 MS

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: C-443

Prep Type: Total/NA

Prep Batch: 8241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F1	0.100	0.05997	F1	mg/Kg		60	70 - 130
m,p-Xylenes	<0.00398	U F1	0.200	0.1047	F1	mg/Kg		52	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.04885	F1	mg/Kg		49	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	1	S1-	70 - 130

Lab Sample ID: 880-6278-121 MSD

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: C-443

Prep Type: Total/NA

Prep Batch: 8241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1 F2	0.0996	0.07097	F2	mg/Kg		71	70 - 130	171	35
Toluene	<0.00199	U F1	0.0996	0.08269		mg/Kg		82	70 - 130	29	35
Ethylbenzene	<0.00199	U F1	0.0996	0.07643		mg/Kg		77	70 - 130	24	35
m,p-Xylenes	<0.00398	U F1	0.199	0.1400		mg/Kg		70	70 - 130	29	35
o-Xylene	<0.00199	U F1	0.0996	0.06450	F1	mg/Kg		65	70 - 130	28	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

Lab Sample ID: MB 880-8243/5-A

Matrix: Solid

Analysis Batch: 8299

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8243

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:59	09/23/21 12:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:59	09/23/21 12:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:59	09/23/21 12:09	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/22/21 08:59	09/23/21 12:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 08:59	09/23/21 12:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/22/21 08:59	09/23/21 12:09	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/22/21 08:59	09/23/21 12:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/22/21 08:59	09/23/21 12:09	1
1,4-Difluorobenzene (Surr)	71		70 - 130	09/22/21 08:59	09/23/21 12:09	1

Lab Sample ID: LCS 880-8243/1-A

Matrix: Solid

Analysis Batch: 8299

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08174		mg/Kg		82	70 - 130
Toluene	0.100	0.1089		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1095		mg/Kg		110	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8243/1-A

Matrix: Solid

Analysis Batch: 8299

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylenes	0.200	0.2051		mg/Kg		103	70 - 130
o-Xylene	0.100	0.09630		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: LCSD 880-8243/2-A

Matrix: Solid

Analysis Batch: 8299

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8243

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07326		mg/Kg		73	70 - 130	11	35
Toluene	0.100	0.1012		mg/Kg		101	70 - 130	7	35
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130	4	35
m,p-Xylenes	0.200	0.1915		mg/Kg		96	70 - 130	7	35
o-Xylene	0.100	0.09459		mg/Kg		95	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-1289-A-1-F MSD

Matrix: Solid

Analysis Batch: 8299

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.101	0.03211	F1	mg/Kg		32	70 - 130	15	35
Toluene	<0.00200	U F1	0.101	0.04330	F1	mg/Kg		43	70 - 130	17	35
Ethylbenzene	<0.00200	U F1	0.101	0.04349	F1	mg/Kg		43	70 - 130	19	35
m,p-Xylenes	<0.00400	U F1 F2	0.201	0.04392	F1 F2	mg/Kg		22	70 - 130	36	35
o-Xylene	<0.00200	U F1	0.101	0.04119	F1	mg/Kg		41	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: MB 880-8251/5-A

Matrix: Solid

Analysis Batch: 8299

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8251

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/23/21 23:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/23/21 23:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/23/21 23:10	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/22/21 09:52	09/23/21 23:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/21 09:52	09/23/21 23:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/22/21 09:52	09/23/21 23:10	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8251/5-A

Matrix: Solid

Analysis Batch: 8299

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8251

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/22/21 09:52	09/23/21 23:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	09/22/21 09:52	09/23/21 23:10	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/22/21 09:52	09/23/21 23:10	1

Lab Sample ID: LCS 880-8251/1-A

Matrix: Solid

Analysis Batch: 8299

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07269		mg/Kg		73	70 - 130
Toluene	0.100	0.09456		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09602		mg/Kg		96	70 - 130
m,p-Xylenes	0.200	0.1732		mg/Kg		87	70 - 130
o-Xylene	0.100	0.08407		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: LCSD 880-8251/2-A

Matrix: Solid

Analysis Batch: 8299

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8251

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07313		mg/Kg		73	70 - 130	1	35
Toluene	0.100	0.09644		mg/Kg		96	70 - 130	2	35
Ethylbenzene	0.100	0.09878		mg/Kg		99	70 - 130	3	35
m,p-Xylenes	0.200	0.1767		mg/Kg		88	70 - 130	2	35
o-Xylene	0.100	0.08640		mg/Kg		86	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-6278-71 MS

Matrix: Solid

Analysis Batch: 8299

Client Sample ID: C-393

Prep Type: Total/NA

Prep Batch: 8251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.100	<0.00201	U F1	mg/Kg		0	70 - 130
Toluene	<0.00200	U F1	0.100	<0.00201	U F1	mg/Kg		0	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	<0.00201	U F1	mg/Kg		0	70 - 130
m,p-Xylenes	<0.00400	U F1	0.201	<0.00402	U F1	mg/Kg		0	70 - 130
o-Xylene	<0.00200	U F1	0.100	<0.00201	U F1	mg/Kg		0	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6278-71 MS

Matrix: Solid

Analysis Batch: 8299

Client Sample ID: C-393

Prep Type: Total/NA

Prep Batch: 8251

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	0	S1-	70 - 130
1,4-Difluorobenzene (Surr)	0	S1-	70 - 130

Lab Sample ID: 880-6278-71 MSD

Matrix: Solid

Analysis Batch: 8299

Client Sample ID: C-393

Prep Type: Total/NA

Prep Batch: 8251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.101	NR	F1	ug/L		0	70 - 130	NC	35
Toluene	<0.00200	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00200	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
m,p-Xylenes	<0.00400	U F1	0.202	<0.00403	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00200	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	0	S1-	70 - 130
1,4-Difluorobenzene (Surr)	0	S1-	70 - 130

Lab Sample ID: MB 880-8359/5-A

Matrix: Solid

Analysis Batch: 8365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8359

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/24/21 10:53	09/24/21 17:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/24/21 10:53	09/24/21 17:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/24/21 10:53	09/24/21 17:49	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/24/21 10:53	09/24/21 17:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/24/21 10:53	09/24/21 17:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/24/21 10:53	09/24/21 17:49	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/24/21 10:53	09/24/21 17:49	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	103		70 - 130	09/24/21 10:53	09/24/21 17:49	1		
1,4-Difluorobenzene (Surr)	79		70 - 130	09/24/21 10:53	09/24/21 17:49	1		

Lab Sample ID: LCS 880-8359/1-A

Matrix: Solid

Analysis Batch: 8365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09435		mg/Kg		94	70 - 130
Toluene	0.100	0.09455		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09547		mg/Kg		95	70 - 130
m,p-Xylenes	0.200	0.1988		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09902		mg/Kg		99	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8359/1-A

Matrix: Solid

Analysis Batch: 8365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8359

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-8359/2-A

Matrix: Solid

Analysis Batch: 8365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8359

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09553		mg/Kg		96	70 - 130	1	35
Toluene	0.100	0.09768		mg/Kg		98	70 - 130	3	35
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130	5	35
m,p-Xylenes	0.200	0.2093		mg/Kg		105	70 - 130	5	35
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	6	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 880-6278-92 MS

Matrix: Solid

Analysis Batch: 8365

Client Sample ID: C-414

Prep Type: Total/NA

Prep Batch: 8359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.0998	0.06933	F1	mg/Kg		69	70 - 130
Toluene	<0.00200	U F1	0.0998	0.07674		mg/Kg		76	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.07945		mg/Kg		80	70 - 130
m,p-Xylenes	<0.00401	U	0.200	0.1605		mg/Kg		80	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08074		mg/Kg		80	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 880-6278-92 MSD

Matrix: Solid

Analysis Batch: 8365

Client Sample ID: C-414

Prep Type: Total/NA

Prep Batch: 8359

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.05515	F1	mg/Kg		55	70 - 130	23	35
Toluene	<0.00200	U F1	0.0994	0.06640	F1	mg/Kg		66	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.0994	0.07154		mg/Kg		72	70 - 130	10	35
m,p-Xylenes	<0.00401	U	0.199	0.1491		mg/Kg		75	70 - 130	7	35
o-Xylene	<0.00200	U	0.0994	0.07463		mg/Kg		75	70 - 130	8	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	71		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-8195/1-A

Matrix: Solid

Analysis Batch: 8185

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8195

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/21/21 21:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/21/21 21:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:10	09/21/21 21:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	09/21/21 10:10	09/21/21 21:59	1
o-Terphenyl (Surr)	109		70 - 130	09/21/21 10:10	09/21/21 21:59	1

Lab Sample ID: LCS 880-8195/2-A

Matrix: Solid

Analysis Batch: 8185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	900.2		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1036		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-8195/3-A

Matrix: Solid

Analysis Batch: 8185

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8195

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	901.6		mg/Kg		90	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1036		mg/Kg		104	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: 880-6278-1 MS

Matrix: Solid

Analysis Batch: 8185

Client Sample ID: C-323

Prep Type: Total/NA

Prep Batch: 8195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	926.7		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1106		mg/Kg		109	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6278-1 MS

Matrix: Solid

Analysis Batch: 8185

Client Sample ID: C-323

Prep Type: Total/NA

Prep Batch: 8195

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	101		70 - 130

Lab Sample ID: 880-6278-1 MSD

Matrix: Solid

Analysis Batch: 8185

Client Sample ID: C-323

Prep Type: Total/NA

Prep Batch: 8195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	924.4		mg/Kg		90	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1088		mg/Kg		107	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: MB 880-8196/1-A

Matrix: Solid

Analysis Batch: 8405

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8196

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 11:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 11:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:24	09/25/21 11:56	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	102		70 - 130	09/21/21 10:24	09/25/21 11:56	1
o-Terphenyl (Surr)	118		70 - 130	09/21/21 10:24	09/25/21 11:56	1

Lab Sample ID: LCS 880-8196/2-A

Matrix: Solid

Analysis Batch: 8405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	918.5		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1083		mg/Kg		108	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8196/3-A

Matrix: Solid

Analysis Batch: 8405

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	923.7		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	992.6		mg/Kg		99	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	109		70 - 130						
o-Terphenyl (Surr)	110		70 - 130						

Lab Sample ID: 880-6278-21 MS

Matrix: Solid

Analysis Batch: 8405

Client Sample ID: C-343

Prep Type: Total/NA

Prep Batch: 8196

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	936.9		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1043		mg/Kg		105	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	104		70 - 130								
o-Terphenyl (Surr)	102		70 - 130								

Lab Sample ID: 880-6278-21 MSD

Matrix: Solid

Analysis Batch: 8405

Client Sample ID: C-343

Prep Type: Total/NA

Prep Batch: 8196

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	984.4		mg/Kg		96	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1023		mg/Kg		102	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	104		70 - 130								
o-Terphenyl (Surr)	99		70 - 130								

Lab Sample ID: MB 880-8197/1-A

Matrix: Solid

Analysis Batch: 8407

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8197

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 10:47	09/25/21 11:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 10:47	09/25/21 11:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 10:47	09/25/21 11:56	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-8197/1-A

Matrix: Solid

Analysis Batch: 8407

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8197

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130	09/21/21 10:47	09/25/21 11:56	1
o-Terphenyl (Surr)	141	S1+	70 - 130	09/21/21 10:47	09/25/21 11:56	1

Lab Sample ID: LCS 880-8197/2-A

Matrix: Solid

Analysis Batch: 8407

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	882.6		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1099		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-8197/3-A

Matrix: Solid

Analysis Batch: 8407

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8197

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	925.1		mg/Kg		93	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1143		mg/Kg		114	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: 880-6278-41 MS

Matrix: Solid

Analysis Batch: 8407

Client Sample ID: C-363

Prep Type: Total/NA

Prep Batch: 8197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	940.5		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1163		mg/Kg		117	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	121		70 - 130
o-Terphenyl (Surr)	122		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6278-41 MSD

Matrix: Solid

Analysis Batch: 8407

Client Sample ID: C-363

Prep Type: Total/NA

Prep Batch: 8197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	872.5		mg/Kg		85	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1113		mg/Kg		111	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	113		70 - 130								
o-Terphenyl (Surr)	116		70 - 130								

Lab Sample ID: MB 880-8199/1-A

Matrix: Solid

Analysis Batch: 8236

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8199

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 10:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 10:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 11:00	09/22/21 10:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			09/21/21 11:00	09/22/21 10:31	1
o-Terphenyl (Surr)	102		70 - 130			09/21/21 11:00	09/22/21 10:31	1

Lab Sample ID: LCS 880-8199/2-A

Matrix: Solid

Analysis Batch: 8236

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	852.5		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	847.9		mg/Kg		85	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	95		70 - 130						
o-Terphenyl (Surr)	98		70 - 130						

Lab Sample ID: LCSD 880-8199/3-A

Matrix: Solid

Analysis Batch: 8236

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	946.6		mg/Kg		95	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	866.6		mg/Kg		87	70 - 130	2	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8199/3-A

Matrix: Solid

Analysis Batch: 8236

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8199

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	97		70 - 130
o-Terphenyl (Surr)	101		70 - 130

Lab Sample ID: 880-6278-61 MS

Matrix: Solid

Analysis Batch: 8236

Client Sample ID: C-383

Prep Type: Total/NA

Prep Batch: 8199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F2	997	726.0		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	761.8		mg/Kg		76	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	79		70 - 130
o-Terphenyl (Surr)	79		70 - 130

Lab Sample ID: 880-6278-61 MSD

Matrix: Solid

Analysis Batch: 8236

Client Sample ID: C-383

Prep Type: Total/NA

Prep Batch: 8199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F2	999	921.6	F2	mg/Kg		90	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	871.8		mg/Kg		87	70 - 130	13	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	89		70 - 130

Lab Sample ID: MB 880-8214/1-A

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8214

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 10:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 10:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/22/21 10:31	1

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	120		70 - 130
o-Terphenyl (Surr)	131	S1+	70 - 130

	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	09/21/21 15:37	09/22/21 10:31	1
o-Terphenyl (Surr)	09/21/21 15:37	09/22/21 10:31	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-8214/1-A

Matrix: Solid

Analysis Batch: 8292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8214

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/23/21 11:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/23/21 11:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:37	09/23/21 11:11	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/21/21 15:37	09/23/21 11:11	1
o-Terphenyl (Surr)	114		70 - 130			09/21/21 15:37	09/23/21 11:11	1

Lab Sample ID: LCS 880-8214/2-A

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1008		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1228		mg/Kg		123	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	118		70 - 130				
o-Terphenyl (Surr)	118		70 - 130				

Lab Sample ID: LCS 880-8214/2-A

Matrix: Solid

Analysis Batch: 8292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	942.5		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1041		mg/Kg		104	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	115		70 - 130				
o-Terphenyl (Surr)	107		70 - 130				

Lab Sample ID: LCSD 880-8214/3-A

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8214

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	961.5		mg/Kg		96	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1066		mg/Kg		107	70 - 130	14	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8214/3-A

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8214

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-8214/3-A

Matrix: Solid

Analysis Batch: 8292

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8214

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1105		mg/Kg		110	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	1105		mg/Kg		111	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	122		70 - 130
o-Terphenyl (Surr)	113		70 - 130

Lab Sample ID: 880-6278-81 MS

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: C-403

Prep Type: Total/NA

Prep Batch: 8214

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	868.3		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1005		mg/Kg		99	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	106		70 - 130

Lab Sample ID: 880-6278-81 MS

Matrix: Solid

Analysis Batch: 8292

Client Sample ID: C-403

Prep Type: Total/NA

Prep Batch: 8214

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	1063		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	991.2		mg/Kg		99	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	114		70 - 130
o-Terphenyl (Surr)	106		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6278-81 MSD

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: C-403

Prep Type: Total/NA

Prep Batch: 8214

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	897.5		mg/Kg		88	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	987.0		mg/Kg		97	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	106		70 - 130								
o-Terphenyl (Surr)	103		70 - 130								

Lab Sample ID: 880-6278-81 MSD

Matrix: Solid

Analysis Batch: 8292

Client Sample ID: C-403

Prep Type: Total/NA

Prep Batch: 8214

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	1115		mg/Kg		109	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	862.9		mg/Kg		86	70 - 130	14	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	97		70 - 130								
o-Terphenyl (Surr)	94		70 - 130								

Lab Sample ID: MB 880-8217/1-A

Matrix: Solid

Analysis Batch: 8294

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8217

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 10:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 10:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 15:51	09/23/21 10:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	104		70 - 130	09/21/21 15:51	09/23/21 10:36	1		
o-Terphenyl (Surr)	119		70 - 130	09/21/21 15:51	09/23/21 10:36	1		

Lab Sample ID: LCS 880-8217/2-A

Matrix: Solid

Analysis Batch: 8294

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1067		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1049		mg/Kg		105	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-8217/2-A

Matrix: Solid

Analysis Batch: 8294

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8217

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	120		70 - 130
o-Terphenyl (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-8217/3-A

Matrix: Solid

Analysis Batch: 8294

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8217

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1049		mg/Kg		105	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	114		70 - 130
o-Terphenyl (Surr)	117		70 - 130

Lab Sample ID: 880-6278-101 MS

Matrix: Solid

Analysis Batch: 8294

Client Sample ID: C-423

Prep Type: Total/NA

Prep Batch: 8217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	875.4		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	899.7		mg/Kg		88	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: 880-6278-101 MSD

Matrix: Solid

Analysis Batch: 8294

Client Sample ID: C-423

Prep Type: Total/NA

Prep Batch: 8217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	863.6		mg/Kg		86	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	895.5		mg/Kg		87	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	96		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-8240/1-A

Matrix: Solid

Analysis Batch: 8296

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8240

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 10:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 10:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/21 08:42	09/23/21 10:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	09/22/21 08:42	09/23/21 10:36	1
o-Terphenyl (Surr)	120		70 - 130	09/22/21 08:42	09/23/21 10:36	1

Lab Sample ID: LCS 880-8240/2-A

Matrix: Solid

Analysis Batch: 8296

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	911.7		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	972.8		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-8240/3-A

Matrix: Solid

Analysis Batch: 8296

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8240

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	947.6		mg/Kg		95	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1016		mg/Kg		102	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	102		70 - 130

Lab Sample ID: 880-6278-121 MS

Matrix: Solid

Analysis Batch: 8296

Client Sample ID: C-443

Prep Type: Total/NA

Prep Batch: 8240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	894.4		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1069		mg/Kg		107	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6278-121 MS

Matrix: Solid

Analysis Batch: 8296

Client Sample ID: C-443

Prep Type: Total/NA

Prep Batch: 8240

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	95		70 - 130

Lab Sample ID: 880-6278-121 MSD

Matrix: Solid

Analysis Batch: 8296

Client Sample ID: C-443

Prep Type: Total/NA

Prep Batch: 8240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	897.3		mg/Kg		87	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1047		mg/Kg		105	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	91		70 - 130

Lab Sample ID: MB 880-8242/1-A

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8242

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/22/21 08:56	09/22/21 20:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/22/21 08:56	09/22/21 20:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/22/21 08:56	09/22/21 20:08	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	108		70 - 130	09/22/21 08:56	09/22/21 20:08	1
o-Terphenyl (Surr)	123		70 - 130	09/22/21 08:56	09/22/21 20:08	1

Lab Sample ID: LCS 880-8242/2-A

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1013		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1278		mg/Kg		128	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	126		70 - 130
o-Terphenyl (Surr)	123		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8242/3-A

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8242

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1021		mg/Kg		102	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1141		mg/Kg		114	70 - 130	11	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	110		70 - 130						
o-Terphenyl (Surr)	108		70 - 130						

Lab Sample ID: 880-6278-141 MS

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: C-463

Prep Type: Total/NA

Prep Batch: 8242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	792.0		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1042		mg/Kg		105	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	100		70 - 130								
o-Terphenyl (Surr)	100		70 - 130								

Lab Sample ID: 880-6278-141 MSD

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: C-463

Prep Type: Total/NA

Prep Batch: 8242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	939.9		mg/Kg		92	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1016		mg/Kg		102	70 - 130	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	102		70 - 130								
o-Terphenyl (Surr)	96		70 - 130								

Lab Sample ID: MB 880-8426/1-A

Matrix: Solid

Analysis Batch: 8427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8426

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 10:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 10:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 10:32	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-8426/1-A

Matrix: Solid

Analysis Batch: 8427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8426

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	09/27/21 08:46	09/27/21 10:32	1
o-Terphenyl (Surr)	113		70 - 130	09/27/21 08:46	09/27/21 10:32	1

Lab Sample ID: LCS 880-8426/2-A

Matrix: Solid

Analysis Batch: 8427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8426

		Spike	LCS	LCS					%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	1124		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	1158		mg/Kg		116	70 - 130		

	LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	128		70 - 130			
o-Terphenyl (Surr)	117		70 - 130			

Lab Sample ID: LCSD 880-8426/3-A

Matrix: Solid

Analysis Batch: 8427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8426

		Spike	LCSD	LCSD					%Rec.	RPD	RPD	Limit
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits				
Gasoline Range Organics (GRO)-C6-C10		1000	937.5		mg/Kg		94	70 - 130		18		20
Diesel Range Organics (Over C10-C28)		1000	1022		mg/Kg		102	70 - 130		12		20

	LCSD	LCSD				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	116		70 - 130			
o-Terphenyl (Surr)	105		70 - 130			

Lab Sample ID: 880-6278-47 MS

Matrix: Solid

Analysis Batch: 8427

Client Sample ID: C-369

Prep Type: Total/NA

Prep Batch: 8426

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	1011		mg/Kg		101	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	997	893.8		mg/Kg		90	70 - 130	

	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	111		70 - 130			
o-Terphenyl (Surr)	99		70 - 130			

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6278-47 MSD

Matrix: Solid

Analysis Batch: 8427

Client Sample ID: C-369

Prep Type: Total/NA

Prep Batch: 8426

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	1029		mg/Kg		103	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	992.2		mg/Kg		99	70 - 130	10	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	119		70 - 130								
o-Terphenyl (Surr)	109		70 - 130								

Lab Sample ID: MB 880-8435/1-A

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8435

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 10:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 10:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 10:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130			09/27/21 08:53	09/27/21 10:32	1
o-Terphenyl (Surr)	137	S1+	70 - 130			09/27/21 08:53	09/27/21 10:32	1

Lab Sample ID: LCS 880-8435/2-A

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1138		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1135		mg/Kg		113	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	122		70 - 130						
o-Terphenyl (Surr)	116		70 - 130						

Lab Sample ID: LCSD 880-8435/3-A

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8435

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1066		mg/Kg		107	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1120		mg/Kg		112	70 - 130	1	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8435/3-A

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8435

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	120		70 - 130
o-Terphenyl (Surr)	118		70 - 130

Lab Sample ID: 880-6278-54 MS

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: C-376

Prep Type: Total/NA

Prep Batch: 8435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	894.3		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	810.0		mg/Kg		81	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	97		70 - 130						
o-Terphenyl (Surr)	92		70 - 130						

Lab Sample ID: 880-6278-54 MSD

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: C-376

Prep Type: Total/NA

Prep Batch: 8435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	920.6		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	810.8		mg/Kg		81	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	104		70 - 130								
o-Terphenyl (Surr)	91		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8179/1-A

Matrix: Solid

Analysis Batch: 8332

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/24/21 01:44	1

Lab Sample ID: LCS 880-8179/2-A

Matrix: Solid

Analysis Batch: 8332

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	255.6		mg/Kg		102	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-8179/3-A

Matrix: Solid

Analysis Batch: 8332

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	256.3		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-6276-A-11-F MS

Matrix: Solid

Analysis Batch: 8332

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	36.9		250	305.0		mg/Kg		107	90 - 110		

Lab Sample ID: 880-6276-A-11-G MSD

Matrix: Solid

Analysis Batch: 8332

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	36.9		250	305.4		mg/Kg		108	90 - 110	0	20

Lab Sample ID: MB 880-8182/1-A

Matrix: Solid

Analysis Batch: 8333

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/24/21 05:00	1

Lab Sample ID: LCS 880-8182/2-A

Matrix: Solid

Analysis Batch: 8333

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	257.9		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-8182/3-A

Matrix: Solid

Analysis Batch: 8333

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-6278-5 MS

Matrix: Solid

Analysis Batch: 8333

Client Sample ID: C-327

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	363		248	614.7		mg/Kg		102	90 - 110		

Lab Sample ID: 880-6278-5 MSD

Matrix: Solid

Analysis Batch: 8333

Client Sample ID: C-327

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	363		248	615.9		mg/Kg		102	90 - 110	0	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-6278-15 MS

Matrix: Solid

Analysis Batch: 8333

Client Sample ID: C-337

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	273		250	532.0		mg/Kg		104	90 - 110

Lab Sample ID: 880-6278-15 MSD

Matrix: Solid

Analysis Batch: 8333

Client Sample ID: C-337

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	273		250	533.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-8187/1-A

Matrix: Solid

Analysis Batch: 8334

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/23/21 22:18	1

Lab Sample ID: LCS 880-8187/2-A

Matrix: Solid

Analysis Batch: 8334

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.4		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-8187/3-A

Matrix: Solid

Analysis Batch: 8334

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	243.3		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 880-6278-25 MS

Matrix: Solid

Analysis Batch: 8334

Client Sample ID: C-347

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	981		250	1215		mg/Kg		94	90 - 110

Lab Sample ID: 880-6278-25 MSD

Matrix: Solid

Analysis Batch: 8334

Client Sample ID: C-347

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	981		250	1216		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-6278-35 MS

Matrix: Solid

Analysis Batch: 8334

Client Sample ID: C-357

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	140		252	394.8		mg/Kg		101	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-6278-35 MSD

Matrix: Solid

Analysis Batch: 8334

Client Sample ID: C-357

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	140		252	397.3		mg/Kg		102	90 - 110	1	20

Lab Sample ID: MB 880-8189/1-A

Matrix: Solid

Analysis Batch: 8336

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/24/21 01:11	1

Lab Sample ID: LCS 880-8189/2-A

Matrix: Solid

Analysis Batch: 8336

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	257.9		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-8189/3-A

Matrix: Solid

Analysis Batch: 8336

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.8		mg/Kg		100	90 - 110	3	20

Lab Sample ID: 880-6278-65 MS

Matrix: Solid

Analysis Batch: 8336

Client Sample ID: C-387

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.7		248	314.1		mg/Kg		106	90 - 110

Lab Sample ID: 880-6278-65 MSD

Matrix: Solid

Analysis Batch: 8336

Client Sample ID: C-387

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.7		248	318.9		mg/Kg		108	90 - 110	2	20

Lab Sample ID: 880-6278-75 MS

Matrix: Solid

Analysis Batch: 8336

Client Sample ID: C-397

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15.5		252	290.1		mg/Kg		109	90 - 110

Lab Sample ID: 880-6278-75 MSD

Matrix: Solid

Analysis Batch: 8336

Client Sample ID: C-397

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15.5		252	289.8		mg/Kg		109	90 - 110	0	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8190/1-A

Matrix: Solid

Analysis Batch: 8337

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/24/21 04:05	1

Lab Sample ID: LCS 880-8190/2-A

Matrix: Solid

Analysis Batch: 8337

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	261.8		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-8190/3-A

Matrix: Solid

Analysis Batch: 8337

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	261.4		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-6278-85 MS

Matrix: Solid

Analysis Batch: 8337

Client Sample ID: C-407

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.1		248	273.6		mg/Kg		104	90 - 110

Lab Sample ID: 880-6278-85 MSD

Matrix: Solid

Analysis Batch: 8337

Client Sample ID: C-407

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	16.1		248	271.5		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-6278-95 MS

Matrix: Solid

Analysis Batch: 8337

Client Sample ID: C-417

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	26.0		249	280.7		mg/Kg		102	90 - 110

Lab Sample ID: 880-6278-95 MSD

Matrix: Solid

Analysis Batch: 8337

Client Sample ID: C-417

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	26.0		249	284.2		mg/Kg		104	90 - 110	1	20

Lab Sample ID: MB 880-8191/1-A

Matrix: Solid

Analysis Batch: 8366

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/24/21 06:58	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-8191/2-A

Matrix: Solid

Analysis Batch: 8366

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	248.2		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-8191/3-A

Matrix: Solid

Analysis Batch: 8366

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	245.0		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-6278-105 MS

Matrix: Solid

Analysis Batch: 8366

Client Sample ID: C-427

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	18.3		248	280.3		mg/Kg		106	90 - 110

Lab Sample ID: 880-6278-105 MSD

Matrix: Solid

Analysis Batch: 8366

Client Sample ID: C-427

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	18.3		248	278.7		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 880-6278-115 MS

Matrix: Solid

Analysis Batch: 8366

Client Sample ID: C-437

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	53.2		250	312.9		mg/Kg		104	90 - 110

Lab Sample ID: 880-6278-115 MSD

Matrix: Solid

Analysis Batch: 8366

Client Sample ID: C-437

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	53.2		250	317.6		mg/Kg		106	90 - 110	1	20

Lab Sample ID: MB 880-8192/1-A

Matrix: Solid

Analysis Batch: 8367

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/24/21 09:12	1

Lab Sample ID: LCS 880-8192/2-A

Matrix: Solid

Analysis Batch: 8367

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.2		mg/Kg		99	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-8192/3-A

Matrix: Solid

Analysis Batch: 8367

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.8		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-6278-125 MS

Matrix: Solid

Analysis Batch: 8367

Client Sample ID: C-447

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	29.4		250	290.6		mg/Kg		104	90 - 110		

Lab Sample ID: 880-6278-125 MSD

Matrix: Solid

Analysis Batch: 8367

Client Sample ID: C-447

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	29.4		250	290.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-6278-135 MS

Matrix: Solid

Analysis Batch: 8367

Client Sample ID: C-457

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22.4		249	275.7		mg/Kg		102	90 - 110		

Lab Sample ID: 880-6278-135 MSD

Matrix: Solid

Analysis Batch: 8367

Client Sample ID: C-457

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22.4		249	277.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-8188/1-A

Matrix: Solid

Analysis Batch: 8399

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/25/21 19:41	1

Lab Sample ID: LCS 880-8188/2-A

Matrix: Solid

Analysis Batch: 8399

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	248.2		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-8188/3-A

Matrix: Solid

Analysis Batch: 8399

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.3		mg/Kg		100	90 - 110	0	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-6278-45 MS

Matrix: Solid

Analysis Batch: 8399

Client Sample ID: C-367

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	112		250	386.0		mg/Kg		110	90 - 110

Lab Sample ID: 880-6278-45 MSD

Matrix: Solid

Analysis Batch: 8399

Client Sample ID: C-367

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	112		250	387.2		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-6278-55 MS

Matrix: Solid

Analysis Batch: 8399

Client Sample ID: C-377

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	191		250	440.6		mg/Kg		100	90 - 110

Lab Sample ID: 880-6278-55 MSD

Matrix: Solid

Analysis Batch: 8399

Client Sample ID: C-377

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	191		250	441.2		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-8450/1-A

Matrix: Solid

Analysis Batch: 8457

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/27/21 16:14	1

Lab Sample ID: LCS 880-8450/2-A

Matrix: Solid

Analysis Batch: 8457

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	241.0		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-8450/3-A

Matrix: Solid

Analysis Batch: 8457

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	241.7		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-6445-A-1-E MS

Matrix: Solid

Analysis Batch: 8457

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			250	348.7		mg/Kg			

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-6445-A-1-F MSD

Matrix: Solid

Analysis Batch: 8457

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	349.5		mg/Kg					

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC VOA

Prep Batch: 8102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-141	C-463	Total/NA	Solid	5035	
880-6278-142	C-464	Total/NA	Solid	5035	
880-6278-143	C-465	Total/NA	Solid	5035	
880-6278-144	C-466	Total/NA	Solid	5035	
MB 880-8102/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-8102/1-B	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8102/2-B	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6278-141 MS	C-463	Total/NA	Solid	5035	
880-6278-141 MSD	C-463	Total/NA	Solid	5035	

Prep Batch: 8131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8131/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-1	C-323	Total/NA	Solid	5035	
880-6278-2	C-324	Total/NA	Solid	5035	
880-6278-3	C-325	Total/NA	Solid	5035	
880-6278-4	C-326	Total/NA	Solid	5035	
880-6278-5	C-327	Total/NA	Solid	5035	
880-6278-6	C-328	Total/NA	Solid	5035	
880-6278-7	C-329	Total/NA	Solid	5035	
880-6278-8	C-330	Total/NA	Solid	5035	
880-6278-9	C-331	Total/NA	Solid	5035	
880-6278-10	C-332	Total/NA	Solid	5035	
880-6278-11	C-333	Total/NA	Solid	5035	
880-6278-12	C-334	Total/NA	Solid	5035	
880-6278-13	C-335	Total/NA	Solid	5035	
880-6278-14	C-336	Total/NA	Solid	5035	
880-6278-15	C-337	Total/NA	Solid	5035	
880-6278-16	C-338	Total/NA	Solid	5035	
880-6278-17	C-339	Total/NA	Solid	5035	
880-6278-18	C-340	Total/NA	Solid	5035	
880-6278-19	C-341	Total/NA	Solid	5035	
880-6278-20	C-342	Total/NA	Solid	5035	
MB 880-8135/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8135/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8135/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6278-1 MS	C-323	Total/NA	Solid	5035	
880-6278-1 MSD	C-323	Total/NA	Solid	5035	

Prep Batch: 8136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-21	C-343	Total/NA	Solid	5035	
880-6278-22	C-344	Total/NA	Solid	5035	
880-6278-23	C-345	Total/NA	Solid	5035	
880-6278-24	C-346	Total/NA	Solid	5035	
880-6278-25	C-347	Total/NA	Solid	5035	
880-6278-26	C-348	Total/NA	Solid	5035	
880-6278-27	C-349	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 8136 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-28	C-350	Total/NA	Solid	5035	
880-6278-29	C-351	Total/NA	Solid	5035	
880-6278-30	C-352	Total/NA	Solid	5035	
880-6278-31	C-353	Total/NA	Solid	5035	
880-6278-32	C-354	Total/NA	Solid	5035	
880-6278-33	C-355	Total/NA	Solid	5035	
880-6278-34	C-356	Total/NA	Solid	5035	
880-6278-35	C-357	Total/NA	Solid	5035	
MB 880-8136/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8136/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8136/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 8137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-41	C-363	Total/NA	Solid	5035	
880-6278-42	C-364	Total/NA	Solid	5035	
880-6278-43	C-365	Total/NA	Solid	5035	
880-6278-44	C-366	Total/NA	Solid	5035	
880-6278-45	C-367	Total/NA	Solid	5035	
880-6278-46	C-368	Total/NA	Solid	5035	
880-6278-47	C-369	Total/NA	Solid	5035	
880-6278-48	C-370	Total/NA	Solid	5035	
880-6278-49	C-371	Total/NA	Solid	5035	
880-6278-50	C-372	Total/NA	Solid	5035	
880-6278-51	C-373	Total/NA	Solid	5035	
880-6278-52	C-374	Total/NA	Solid	5035	
880-6278-53	C-375	Total/NA	Solid	5035	
880-6278-54	C-376	Total/NA	Solid	5035	
880-6278-55	C-377	Total/NA	Solid	5035	
880-6278-56	C-378	Total/NA	Solid	5035	
880-6278-57	C-379	Total/NA	Solid	5035	
880-6278-58	C-380	Total/NA	Solid	5035	
880-6278-59	C-381	Total/NA	Solid	5035	
880-6278-60	C-382	Total/NA	Solid	5035	
MB 880-8137/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8137/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8137/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6278-41 MS	C-363	Total/NA	Solid	5035	
880-6278-41 MSD	C-363	Total/NA	Solid	5035	

Prep Batch: 8138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-61	C-383	Total/NA	Solid	5035	
880-6278-62	C-384	Total/NA	Solid	5035	
880-6278-63	C-385	Total/NA	Solid	5035	
880-6278-64	C-386	Total/NA	Solid	5035	
880-6278-65	C-387	Total/NA	Solid	5035	
880-6278-66	C-388	Total/NA	Solid	5035	
880-6278-67	C-389	Total/NA	Solid	5035	
880-6278-68	C-390	Total/NA	Solid	5035	
880-6278-69	C-391	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 8138 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-70	C-392	Total/NA	Solid	5035	
MB 880-8138/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8138/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8138/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6278-61 MS	C-383	Total/NA	Solid	5035	
880-6278-61 MSD	C-383	Total/NA	Solid	5035	

Prep Batch: 8139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-81	C-403	Total/NA	Solid	5035	
880-6278-82	C-404	Total/NA	Solid	5035	
880-6278-83	C-405	Total/NA	Solid	5035	
880-6278-84	C-406	Total/NA	Solid	5035	
880-6278-85	C-407	Total/NA	Solid	5035	
880-6278-86	C-408	Total/NA	Solid	5035	
880-6278-87	C-409	Total/NA	Solid	5035	
880-6278-88	C-410	Total/NA	Solid	5035	
880-6278-89	C-411	Total/NA	Solid	5035	
880-6278-90	C-412	Total/NA	Solid	5035	
880-6278-91	C-413	Total/NA	Solid	5035	
880-6278-93	C-415	Total/NA	Solid	5035	
880-6278-94	C-416	Total/NA	Solid	5035	
880-6278-95	C-417	Total/NA	Solid	5035	
880-6278-96	C-418	Total/NA	Solid	5035	
880-6278-97	C-419	Total/NA	Solid	5035	
880-6278-98	C-420	Total/NA	Solid	5035	
880-6278-99	C-421	Total/NA	Solid	5035	
880-6278-100	C-422	Total/NA	Solid	5035	
MB 880-8139/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8139/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8139/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6278-81 MS	C-403	Total/NA	Solid	5035	
880-6278-81 MSD	C-403	Total/NA	Solid	5035	

Prep Batch: 8141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-101	C-423	Total/NA	Solid	5035	
880-6278-102	C-424	Total/NA	Solid	5035	
880-6278-103	C-425	Total/NA	Solid	5035	
880-6278-104	C-426	Total/NA	Solid	5035	
880-6278-105	C-427	Total/NA	Solid	5035	
880-6278-106	C-428	Total/NA	Solid	5035	
880-6278-107	C-429	Total/NA	Solid	5035	
880-6278-108	C-430	Total/NA	Solid	5035	
880-6278-109	C-431	Total/NA	Solid	5035	
880-6278-110	C-432	Total/NA	Solid	5035	
880-6278-111	C-433	Total/NA	Solid	5035	
880-6278-112	C-434	Total/NA	Solid	5035	
880-6278-113	C-435	Total/NA	Solid	5035	
880-6278-114	C-436	Total/NA	Solid	5035	
880-6278-115	C-437	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 8141 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-116	C-438	Total/NA	Solid	5035	
880-6278-117	C-439	Total/NA	Solid	5035	
880-6278-118	C-440	Total/NA	Solid	5035	
880-6278-119	C-441	Total/NA	Solid	5035	
880-6278-120	C-442	Total/NA	Solid	5035	
MB 880-8141/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8141/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8141/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6278-101 MS	C-423	Total/NA	Solid	5035	
880-6278-101 MSD	C-423	Total/NA	Solid	5035	

Analysis Batch: 8145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-1	C-323	Total/NA	Solid	8021B	8135
880-6278-2	C-324	Total/NA	Solid	8021B	8135
880-6278-3	C-325	Total/NA	Solid	8021B	8135
880-6278-4	C-326	Total/NA	Solid	8021B	8135
880-6278-5	C-327	Total/NA	Solid	8021B	8135
880-6278-6	C-328	Total/NA	Solid	8021B	8135
880-6278-7	C-329	Total/NA	Solid	8021B	8135
880-6278-8	C-330	Total/NA	Solid	8021B	8135
880-6278-9	C-331	Total/NA	Solid	8021B	8135
880-6278-10	C-332	Total/NA	Solid	8021B	8135
880-6278-11	C-333	Total/NA	Solid	8021B	8135
880-6278-12	C-334	Total/NA	Solid	8021B	8135
880-6278-13	C-335	Total/NA	Solid	8021B	8135
880-6278-14	C-336	Total/NA	Solid	8021B	8135
880-6278-15	C-337	Total/NA	Solid	8021B	8135
880-6278-16	C-338	Total/NA	Solid	8021B	8135
880-6278-17	C-339	Total/NA	Solid	8021B	8135
880-6278-18	C-340	Total/NA	Solid	8021B	8135
880-6278-19	C-341	Total/NA	Solid	8021B	8135
880-6278-20	C-342	Total/NA	Solid	8021B	8135
MB 880-8131/5-A	Method Blank	Total/NA	Solid	8021B	8131
MB 880-8135/5-A	Method Blank	Total/NA	Solid	8021B	8135
LCS 880-8135/1-A	Lab Control Sample	Total/NA	Solid	8021B	8135
LCSD 880-8135/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8135
880-6278-1 MS	C-323	Total/NA	Solid	8021B	8135
880-6278-1 MSD	C-323	Total/NA	Solid	8021B	8135

Analysis Batch: 8163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-41	C-363	Total/NA	Solid	8021B	8137
880-6278-42	C-364	Total/NA	Solid	8021B	8137
880-6278-43	C-365	Total/NA	Solid	8021B	8137
880-6278-44	C-366	Total/NA	Solid	8021B	8137
880-6278-45	C-367	Total/NA	Solid	8021B	8137
880-6278-46	C-368	Total/NA	Solid	8021B	8137
880-6278-47	C-369	Total/NA	Solid	8021B	8137
880-6278-48	C-370	Total/NA	Solid	8021B	8137
880-6278-49	C-371	Total/NA	Solid	8021B	8137

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8163 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-50	C-372	Total/NA	Solid	8021B	8137
880-6278-51	C-373	Total/NA	Solid	8021B	8137
880-6278-52	C-374	Total/NA	Solid	8021B	8137
880-6278-53	C-375	Total/NA	Solid	8021B	8137
880-6278-54	C-376	Total/NA	Solid	8021B	8137
880-6278-55	C-377	Total/NA	Solid	8021B	8137
880-6278-56	C-378	Total/NA	Solid	8021B	8137
880-6278-57	C-379	Total/NA	Solid	8021B	8137
880-6278-58	C-380	Total/NA	Solid	8021B	8137
880-6278-59	C-381	Total/NA	Solid	8021B	8137
880-6278-60	C-382	Total/NA	Solid	8021B	8137
880-6278-61	C-383	Total/NA	Solid	8021B	8138
880-6278-62	C-384	Total/NA	Solid	8021B	8138
880-6278-63	C-385	Total/NA	Solid	8021B	8138
880-6278-64	C-386	Total/NA	Solid	8021B	8138
880-6278-65	C-387	Total/NA	Solid	8021B	8138
880-6278-66	C-388	Total/NA	Solid	8021B	8138
880-6278-67	C-389	Total/NA	Solid	8021B	8138
880-6278-68	C-390	Total/NA	Solid	8021B	8138
880-6278-69	C-391	Total/NA	Solid	8021B	8138
880-6278-70	C-392	Total/NA	Solid	8021B	8138
MB 880-8137/5-A	Method Blank	Total/NA	Solid	8021B	8137
MB 880-8138/5-A	Method Blank	Total/NA	Solid	8021B	8138
LCS 880-8137/1-A	Lab Control Sample	Total/NA	Solid	8021B	8137
LCS 880-8138/1-A	Lab Control Sample	Total/NA	Solid	8021B	8138
LCSD 880-8137/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8137
LCSD 880-8138/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8138
880-6278-41 MS	C-363	Total/NA	Solid	8021B	8137
880-6278-41 MSD	C-363	Total/NA	Solid	8021B	8137
880-6278-61 MS	C-383	Total/NA	Solid	8021B	8138
880-6278-61 MSD	C-383	Total/NA	Solid	8021B	8138

Prep Batch: 8173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8173/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 8207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-21	C-343	Total/NA	Solid	8021B	8136
880-6278-22	C-344	Total/NA	Solid	8021B	8136
880-6278-23	C-345	Total/NA	Solid	8021B	8136
880-6278-24	C-346	Total/NA	Solid	8021B	8136
880-6278-25	C-347	Total/NA	Solid	8021B	8136
880-6278-26	C-348	Total/NA	Solid	8021B	8136
880-6278-27	C-349	Total/NA	Solid	8021B	8136
880-6278-28	C-350	Total/NA	Solid	8021B	8136
880-6278-29	C-351	Total/NA	Solid	8021B	8136
880-6278-30	C-352	Total/NA	Solid	8021B	8136
880-6278-31	C-353	Total/NA	Solid	8021B	8136
880-6278-32	C-354	Total/NA	Solid	8021B	8136
880-6278-33	C-355	Total/NA	Solid	8021B	8136

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8207 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-34	C-356	Total/NA	Solid	8021B	8136
880-6278-35	C-357	Total/NA	Solid	8021B	8136
880-6278-121	C-443	Total/NA	Solid	8021B	8241
880-6278-122	C-444	Total/NA	Solid	8021B	8241
880-6278-123	C-445	Total/NA	Solid	8021B	8241
880-6278-124	C-446	Total/NA	Solid	8021B	8241
880-6278-125	C-447	Total/NA	Solid	8021B	8241
880-6278-126	C-448	Total/NA	Solid	8021B	8241
880-6278-127	C-449	Total/NA	Solid	8021B	8241
880-6278-128	C-450	Total/NA	Solid	8021B	8241
880-6278-129	C-451	Total/NA	Solid	8021B	8241
880-6278-130	C-452	Total/NA	Solid	8021B	8241
880-6278-131	C-453	Total/NA	Solid	8021B	8241
880-6278-132	C-454	Total/NA	Solid	8021B	8241
880-6278-133	C-455	Total/NA	Solid	8021B	8241
880-6278-134	C-456	Total/NA	Solid	8021B	8241
880-6278-135	C-457	Total/NA	Solid	8021B	8241
880-6278-136	C-458	Total/NA	Solid	8021B	8241
880-6278-137	C-459	Total/NA	Solid	8021B	8241
880-6278-138	C-460	Total/NA	Solid	8021B	8241
880-6278-139	C-461	Total/NA	Solid	8021B	8241
880-6278-140	C-462	Total/NA	Solid	8021B	8241
MB 880-8136/5-A	Method Blank	Total/NA	Solid	8021B	8136
MB 880-8173/5-A	Method Blank	Total/NA	Solid	8021B	8173
MB 880-8241/5-A	Method Blank	Total/NA	Solid	8021B	8241
LCS 880-8136/1-A	Lab Control Sample	Total/NA	Solid	8021B	8136
LCS 880-8241/1-A	Lab Control Sample	Total/NA	Solid	8021B	8241
LCSD 880-8136/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8136
LCSD 880-8241/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8241
880-6278-121 MS	C-443	Total/NA	Solid	8021B	8241
880-6278-121 MSD	C-443	Total/NA	Solid	8021B	8241

Analysis Batch: 8212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-141	C-463	Total/NA	Solid	8021B	8102
880-6278-142	C-464	Total/NA	Solid	8021B	8102
880-6278-143	C-465	Total/NA	Solid	8021B	8102
880-6278-144	C-466	Total/NA	Solid	8021B	8102
MB 880-8102/5-B	Method Blank	Total/NA	Solid	8021B	8102
LCS 880-8102/1-B	Lab Control Sample	Total/NA	Solid	8021B	8102
LCSD 880-8102/2-B	Lab Control Sample Dup	Total/NA	Solid	8021B	8102
880-6278-141 MS	C-463	Total/NA	Solid	8021B	8102
880-6278-141 MSD	C-463	Total/NA	Solid	8021B	8102

Analysis Batch: 8218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-81	C-403	Total/NA	Solid	8021B	8139
880-6278-82	C-404	Total/NA	Solid	8021B	8139
880-6278-83	C-405	Total/NA	Solid	8021B	8139
880-6278-84	C-406	Total/NA	Solid	8021B	8139
880-6278-85	C-407	Total/NA	Solid	8021B	8139

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8218 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-86	C-408	Total/NA	Solid	8021B	8139
880-6278-87	C-409	Total/NA	Solid	8021B	8139
880-6278-88	C-410	Total/NA	Solid	8021B	8139
880-6278-89	C-411	Total/NA	Solid	8021B	8139
880-6278-90	C-412	Total/NA	Solid	8021B	8139
880-6278-91	C-413	Total/NA	Solid	8021B	8139
880-6278-93	C-415	Total/NA	Solid	8021B	8139
880-6278-94	C-416	Total/NA	Solid	8021B	8139
880-6278-95	C-417	Total/NA	Solid	8021B	8139
880-6278-96	C-418	Total/NA	Solid	8021B	8139
880-6278-97	C-419	Total/NA	Solid	8021B	8139
880-6278-98	C-420	Total/NA	Solid	8021B	8139
880-6278-99	C-421	Total/NA	Solid	8021B	8139
880-6278-100	C-422	Total/NA	Solid	8021B	8139
MB 880-8139/5-A	Method Blank	Total/NA	Solid	8021B	8139
LCS 880-8139/1-A	Lab Control Sample	Total/NA	Solid	8021B	8139
LCSD 880-8139/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8139
880-6278-81 MS	C-403	Total/NA	Solid	8021B	8139
880-6278-81 MSD	C-403	Total/NA	Solid	8021B	8139

Prep Batch: 8241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-121	C-443	Total/NA	Solid	5035	
880-6278-122	C-444	Total/NA	Solid	5035	
880-6278-123	C-445	Total/NA	Solid	5035	
880-6278-124	C-446	Total/NA	Solid	5035	
880-6278-125	C-447	Total/NA	Solid	5035	
880-6278-126	C-448	Total/NA	Solid	5035	
880-6278-127	C-449	Total/NA	Solid	5035	
880-6278-128	C-450	Total/NA	Solid	5035	
880-6278-129	C-451	Total/NA	Solid	5035	
880-6278-130	C-452	Total/NA	Solid	5035	
880-6278-131	C-453	Total/NA	Solid	5035	
880-6278-132	C-454	Total/NA	Solid	5035	
880-6278-133	C-455	Total/NA	Solid	5035	
880-6278-134	C-456	Total/NA	Solid	5035	
880-6278-135	C-457	Total/NA	Solid	5035	
880-6278-136	C-458	Total/NA	Solid	5035	
880-6278-137	C-459	Total/NA	Solid	5035	
880-6278-138	C-460	Total/NA	Solid	5035	
880-6278-139	C-461	Total/NA	Solid	5035	
880-6278-140	C-462	Total/NA	Solid	5035	
MB 880-8241/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8241/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8241/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6278-121 MS	C-443	Total/NA	Solid	5035	
880-6278-121 MSD	C-443	Total/NA	Solid	5035	

Prep Batch: 8243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8243/5-A	Method Blank	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 8243 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-8243/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8243/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1289-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 8251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-36	C-358	Total/NA	Solid	5035	
880-6278-37	C-359	Total/NA	Solid	5035	
880-6278-38	C-360	Total/NA	Solid	5035	
880-6278-39	C-361	Total/NA	Solid	5035	
880-6278-40	C-362	Total/NA	Solid	5035	
880-6278-71	C-393	Total/NA	Solid	5035	
880-6278-72	C-394	Total/NA	Solid	5035	
880-6278-73	C-395	Total/NA	Solid	5035	
880-6278-74	C-396	Total/NA	Solid	5035	
880-6278-75	C-397	Total/NA	Solid	5035	
880-6278-76	C-398	Total/NA	Solid	5035	
880-6278-77	C-399	Total/NA	Solid	5035	
880-6278-78	C-400	Total/NA	Solid	5035	
880-6278-79	C-401	Total/NA	Solid	5035	
880-6278-80	C-402	Total/NA	Solid	5035	
MB 880-8251/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8251/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8251/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6278-71 MS	C-393	Total/NA	Solid	5035	
880-6278-71 MSD	C-393	Total/NA	Solid	5035	

Analysis Batch: 8299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-36	C-358	Total/NA	Solid	8021B	8251
880-6278-37	C-359	Total/NA	Solid	8021B	8251
880-6278-38	C-360	Total/NA	Solid	8021B	8251
880-6278-39	C-361	Total/NA	Solid	8021B	8251
880-6278-40	C-362	Total/NA	Solid	8021B	8251
880-6278-71	C-393	Total/NA	Solid	8021B	8251
880-6278-72	C-394	Total/NA	Solid	8021B	8251
880-6278-73	C-395	Total/NA	Solid	8021B	8251
880-6278-74	C-396	Total/NA	Solid	8021B	8251
880-6278-75	C-397	Total/NA	Solid	8021B	8251
880-6278-76	C-398	Total/NA	Solid	8021B	8251
880-6278-77	C-399	Total/NA	Solid	8021B	8251
880-6278-78	C-400	Total/NA	Solid	8021B	8251
880-6278-79	C-401	Total/NA	Solid	8021B	8251
880-6278-80	C-402	Total/NA	Solid	8021B	8251
MB 880-8243/5-A	Method Blank	Total/NA	Solid	8021B	8243
MB 880-8251/5-A	Method Blank	Total/NA	Solid	8021B	8251
LCS 880-8243/1-A	Lab Control Sample	Total/NA	Solid	8021B	8243
LCS 880-8251/1-A	Lab Control Sample	Total/NA	Solid	8021B	8251
LCSD 880-8243/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8243
LCSD 880-8251/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8251
880-6278-71 MS	C-393	Total/NA	Solid	8021B	8251

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-71 MSD	C-393	Total/NA	Solid	8021B	8251
890-1289-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8243

Analysis Batch: 8326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-101	C-423	Total/NA	Solid	8021B	8141
880-6278-102	C-424	Total/NA	Solid	8021B	8141
880-6278-103	C-425	Total/NA	Solid	8021B	8141
880-6278-104	C-426	Total/NA	Solid	8021B	8141
880-6278-105	C-427	Total/NA	Solid	8021B	8141
880-6278-106	C-428	Total/NA	Solid	8021B	8141
880-6278-107	C-429	Total/NA	Solid	8021B	8141
880-6278-108	C-430	Total/NA	Solid	8021B	8141
880-6278-109	C-431	Total/NA	Solid	8021B	8141
880-6278-110	C-432	Total/NA	Solid	8021B	8141
880-6278-111	C-433	Total/NA	Solid	8021B	8141
880-6278-112	C-434	Total/NA	Solid	8021B	8141
880-6278-113	C-435	Total/NA	Solid	8021B	8141
880-6278-114	C-436	Total/NA	Solid	8021B	8141
880-6278-115	C-437	Total/NA	Solid	8021B	8141
880-6278-116	C-438	Total/NA	Solid	8021B	8141
880-6278-117	C-439	Total/NA	Solid	8021B	8141
880-6278-118	C-440	Total/NA	Solid	8021B	8141
880-6278-119	C-441	Total/NA	Solid	8021B	8141
880-6278-120	C-442	Total/NA	Solid	8021B	8141
MB 880-8141/5-A	Method Blank	Total/NA	Solid	8021B	8141
LCS 880-8141/1-A	Lab Control Sample	Total/NA	Solid	8021B	8141
LCSD 880-8141/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8141
880-6278-101 MS	C-423	Total/NA	Solid	8021B	8141
880-6278-101 MSD	C-423	Total/NA	Solid	8021B	8141

Prep Batch: 8359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-92	C-414	Total/NA	Solid	5035	
MB 880-8359/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8359/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8359/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6278-92 MS	C-414	Total/NA	Solid	5035	
880-6278-92 MSD	C-414	Total/NA	Solid	5035	

Analysis Batch: 8365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-92	C-414	Total/NA	Solid	8021B	8359
MB 880-8359/5-A	Method Blank	Total/NA	Solid	8021B	8359
LCS 880-8359/1-A	Lab Control Sample	Total/NA	Solid	8021B	8359
LCSD 880-8359/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8359
880-6278-92 MS	C-414	Total/NA	Solid	8021B	8359
880-6278-92 MSD	C-414	Total/NA	Solid	8021B	8359

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 8185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-1	C-323	Total/NA	Solid	8015B NM	8195
880-6278-2	C-324	Total/NA	Solid	8015B NM	8195
880-6278-3	C-325	Total/NA	Solid	8015B NM	8195
880-6278-4	C-326	Total/NA	Solid	8015B NM	8195
880-6278-5	C-327	Total/NA	Solid	8015B NM	8195
880-6278-6	C-328	Total/NA	Solid	8015B NM	8195
880-6278-7	C-329	Total/NA	Solid	8015B NM	8195
880-6278-8	C-330	Total/NA	Solid	8015B NM	8195
880-6278-9	C-331	Total/NA	Solid	8015B NM	8195
880-6278-10	C-332	Total/NA	Solid	8015B NM	8195
880-6278-11	C-333	Total/NA	Solid	8015B NM	8195
880-6278-12	C-334	Total/NA	Solid	8015B NM	8195
880-6278-13	C-335	Total/NA	Solid	8015B NM	8195
880-6278-14	C-336	Total/NA	Solid	8015B NM	8195
880-6278-15	C-337	Total/NA	Solid	8015B NM	8195
880-6278-16	C-338	Total/NA	Solid	8015B NM	8195
880-6278-17	C-339	Total/NA	Solid	8015B NM	8195
880-6278-18	C-340	Total/NA	Solid	8015B NM	8195
880-6278-19	C-341	Total/NA	Solid	8015B NM	8195
880-6278-20	C-342	Total/NA	Solid	8015B NM	8195
MB 880-8195/1-A	Method Blank	Total/NA	Solid	8015B NM	8195
LCS 880-8195/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8195
LCSD 880-8195/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8195
880-6278-1 MS	C-323	Total/NA	Solid	8015B NM	8195
880-6278-1 MSD	C-323	Total/NA	Solid	8015B NM	8195

Prep Batch: 8195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-1	C-323	Total/NA	Solid	8015NM Prep	
880-6278-2	C-324	Total/NA	Solid	8015NM Prep	
880-6278-3	C-325	Total/NA	Solid	8015NM Prep	
880-6278-4	C-326	Total/NA	Solid	8015NM Prep	
880-6278-5	C-327	Total/NA	Solid	8015NM Prep	
880-6278-6	C-328	Total/NA	Solid	8015NM Prep	
880-6278-7	C-329	Total/NA	Solid	8015NM Prep	
880-6278-8	C-330	Total/NA	Solid	8015NM Prep	
880-6278-9	C-331	Total/NA	Solid	8015NM Prep	
880-6278-10	C-332	Total/NA	Solid	8015NM Prep	
880-6278-11	C-333	Total/NA	Solid	8015NM Prep	
880-6278-12	C-334	Total/NA	Solid	8015NM Prep	
880-6278-13	C-335	Total/NA	Solid	8015NM Prep	
880-6278-14	C-336	Total/NA	Solid	8015NM Prep	
880-6278-15	C-337	Total/NA	Solid	8015NM Prep	
880-6278-16	C-338	Total/NA	Solid	8015NM Prep	
880-6278-17	C-339	Total/NA	Solid	8015NM Prep	
880-6278-18	C-340	Total/NA	Solid	8015NM Prep	
880-6278-19	C-341	Total/NA	Solid	8015NM Prep	
880-6278-20	C-342	Total/NA	Solid	8015NM Prep	
MB 880-8195/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8195/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8195/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 8195 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-1 MS	C-323	Total/NA	Solid	8015NM Prep	
880-6278-1 MSD	C-323	Total/NA	Solid	8015NM Prep	

Prep Batch: 8196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-21	C-343	Total/NA	Solid	8015NM Prep	
880-6278-22	C-344	Total/NA	Solid	8015NM Prep	
880-6278-23	C-345	Total/NA	Solid	8015NM Prep	
880-6278-24	C-346	Total/NA	Solid	8015NM Prep	
880-6278-25	C-347	Total/NA	Solid	8015NM Prep	
880-6278-26	C-348	Total/NA	Solid	8015NM Prep	
880-6278-27	C-349	Total/NA	Solid	8015NM Prep	
880-6278-28	C-350	Total/NA	Solid	8015NM Prep	
880-6278-29	C-351	Total/NA	Solid	8015NM Prep	
880-6278-30	C-352	Total/NA	Solid	8015NM Prep	
880-6278-31	C-353	Total/NA	Solid	8015NM Prep	
880-6278-32	C-354	Total/NA	Solid	8015NM Prep	
880-6278-33	C-355	Total/NA	Solid	8015NM Prep	
880-6278-34	C-356	Total/NA	Solid	8015NM Prep	
880-6278-35	C-357	Total/NA	Solid	8015NM Prep	
880-6278-36	C-358	Total/NA	Solid	8015NM Prep	
880-6278-37	C-359	Total/NA	Solid	8015NM Prep	
880-6278-38	C-360	Total/NA	Solid	8015NM Prep	
880-6278-39	C-361	Total/NA	Solid	8015NM Prep	
880-6278-40	C-362	Total/NA	Solid	8015NM Prep	
MB 880-8196/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8196/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8196/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6278-21 MS	C-343	Total/NA	Solid	8015NM Prep	
880-6278-21 MSD	C-343	Total/NA	Solid	8015NM Prep	

Prep Batch: 8197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-41	C-363	Total/NA	Solid	8015NM Prep	
880-6278-42	C-364	Total/NA	Solid	8015NM Prep	
880-6278-43	C-365	Total/NA	Solid	8015NM Prep	
880-6278-44	C-366	Total/NA	Solid	8015NM Prep	
880-6278-45	C-367	Total/NA	Solid	8015NM Prep	
880-6278-46	C-368	Total/NA	Solid	8015NM Prep	
MB 880-8197/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8197/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8197/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6278-41 MS	C-363	Total/NA	Solid	8015NM Prep	
880-6278-41 MSD	C-363	Total/NA	Solid	8015NM Prep	

Prep Batch: 8199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-61	C-383	Total/NA	Solid	8015NM Prep	
880-6278-62	C-384	Total/NA	Solid	8015NM Prep	
880-6278-63	C-385	Total/NA	Solid	8015NM Prep	
880-6278-64	C-386	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 8199 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-65	C-387	Total/NA	Solid	8015NM Prep	
880-6278-66	C-388	Total/NA	Solid	8015NM Prep	
880-6278-67	C-389	Total/NA	Solid	8015NM Prep	
880-6278-68	C-390	Total/NA	Solid	8015NM Prep	
880-6278-69	C-391	Total/NA	Solid	8015NM Prep	
880-6278-70	C-392	Total/NA	Solid	8015NM Prep	
880-6278-71	C-393	Total/NA	Solid	8015NM Prep	
880-6278-72	C-394	Total/NA	Solid	8015NM Prep	
880-6278-73	C-395	Total/NA	Solid	8015NM Prep	
880-6278-74	C-396	Total/NA	Solid	8015NM Prep	
880-6278-75	C-397	Total/NA	Solid	8015NM Prep	
880-6278-76	C-398	Total/NA	Solid	8015NM Prep	
880-6278-77	C-399	Total/NA	Solid	8015NM Prep	
880-6278-78	C-400	Total/NA	Solid	8015NM Prep	
880-6278-79	C-401	Total/NA	Solid	8015NM Prep	
880-6278-80	C-402	Total/NA	Solid	8015NM Prep	
MB 880-8199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6278-61 MS	C-383	Total/NA	Solid	8015NM Prep	
880-6278-61 MSD	C-383	Total/NA	Solid	8015NM Prep	

Prep Batch: 8214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-81	C-403	Total/NA	Solid	8015NM Prep	
880-6278-82	C-404	Total/NA	Solid	8015NM Prep	
880-6278-83	C-405	Total/NA	Solid	8015NM Prep	
880-6278-84	C-406	Total/NA	Solid	8015NM Prep	
880-6278-85	C-407	Total/NA	Solid	8015NM Prep	
880-6278-86	C-408	Total/NA	Solid	8015NM Prep	
880-6278-87	C-409	Total/NA	Solid	8015NM Prep	
880-6278-88	C-410	Total/NA	Solid	8015NM Prep	
880-6278-89	C-411	Total/NA	Solid	8015NM Prep	
880-6278-90	C-412	Total/NA	Solid	8015NM Prep	
880-6278-91	C-413	Total/NA	Solid	8015NM Prep	
880-6278-92	C-414	Total/NA	Solid	8015NM Prep	
880-6278-93	C-415	Total/NA	Solid	8015NM Prep	
880-6278-94	C-416	Total/NA	Solid	8015NM Prep	
880-6278-95	C-417	Total/NA	Solid	8015NM Prep	
880-6278-96	C-418	Total/NA	Solid	8015NM Prep	
880-6278-97	C-419	Total/NA	Solid	8015NM Prep	
880-6278-98	C-420	Total/NA	Solid	8015NM Prep	
880-6278-99	C-421	Total/NA	Solid	8015NM Prep	
880-6278-100	C-422	Total/NA	Solid	8015NM Prep	
MB 880-8214/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8214/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8214/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6278-81 MS	C-403	Total/NA	Solid	8015NM Prep	
880-6278-81 MSD	C-403	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 8217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-101	C-423	Total/NA	Solid	8015NM Prep	
880-6278-102	C-424	Total/NA	Solid	8015NM Prep	
880-6278-103	C-425	Total/NA	Solid	8015NM Prep	
880-6278-104	C-426	Total/NA	Solid	8015NM Prep	
880-6278-105	C-427	Total/NA	Solid	8015NM Prep	
880-6278-106	C-428	Total/NA	Solid	8015NM Prep	
880-6278-107	C-429	Total/NA	Solid	8015NM Prep	
880-6278-108	C-430	Total/NA	Solid	8015NM Prep	
880-6278-109	C-431	Total/NA	Solid	8015NM Prep	
880-6278-110	C-432	Total/NA	Solid	8015NM Prep	
880-6278-111	C-433	Total/NA	Solid	8015NM Prep	
880-6278-112	C-434	Total/NA	Solid	8015NM Prep	
880-6278-113	C-435	Total/NA	Solid	8015NM Prep	
880-6278-114	C-436	Total/NA	Solid	8015NM Prep	
880-6278-115	C-437	Total/NA	Solid	8015NM Prep	
880-6278-116	C-438	Total/NA	Solid	8015NM Prep	
880-6278-117	C-439	Total/NA	Solid	8015NM Prep	
880-6278-118	C-440	Total/NA	Solid	8015NM Prep	
880-6278-119	C-441	Total/NA	Solid	8015NM Prep	
880-6278-120	C-442	Total/NA	Solid	8015NM Prep	
MB 880-8217/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8217/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8217/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6278-101 MS	C-423	Total/NA	Solid	8015NM Prep	
880-6278-101 MSD	C-423	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-61	C-383	Total/NA	Solid	8015B NM	8199
880-6278-62	C-384	Total/NA	Solid	8015B NM	8199
880-6278-63	C-385	Total/NA	Solid	8015B NM	8199
880-6278-64	C-386	Total/NA	Solid	8015B NM	8199
880-6278-65	C-387	Total/NA	Solid	8015B NM	8199
880-6278-66	C-388	Total/NA	Solid	8015B NM	8199
880-6278-67	C-389	Total/NA	Solid	8015B NM	8199
880-6278-68	C-390	Total/NA	Solid	8015B NM	8199
880-6278-69	C-391	Total/NA	Solid	8015B NM	8199
880-6278-70	C-392	Total/NA	Solid	8015B NM	8199
880-6278-71	C-393	Total/NA	Solid	8015B NM	8199
880-6278-72	C-394	Total/NA	Solid	8015B NM	8199
880-6278-73	C-395	Total/NA	Solid	8015B NM	8199
880-6278-74	C-396	Total/NA	Solid	8015B NM	8199
880-6278-75	C-397	Total/NA	Solid	8015B NM	8199
880-6278-76	C-398	Total/NA	Solid	8015B NM	8199
880-6278-77	C-399	Total/NA	Solid	8015B NM	8199
880-6278-78	C-400	Total/NA	Solid	8015B NM	8199
880-6278-79	C-401	Total/NA	Solid	8015B NM	8199
880-6278-80	C-402	Total/NA	Solid	8015B NM	8199
MB 880-8199/1-A	Method Blank	Total/NA	Solid	8015B NM	8199
LCS 880-8199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8199
LCSD 880-8199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8199

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8236 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-61 MS	C-383	Total/NA	Solid	8015B NM	8199
880-6278-61 MSD	C-383	Total/NA	Solid	8015B NM	8199

Analysis Batch: 8238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-81	C-403	Total/NA	Solid	8015B NM	8214
880-6278-82	C-404	Total/NA	Solid	8015B NM	8214
880-6278-83	C-405	Total/NA	Solid	8015B NM	8214
880-6278-84	C-406	Total/NA	Solid	8015B NM	8214
880-6278-85	C-407	Total/NA	Solid	8015B NM	8214
880-6278-86	C-408	Total/NA	Solid	8015B NM	8214
880-6278-87	C-409	Total/NA	Solid	8015B NM	8214
880-6278-88	C-410	Total/NA	Solid	8015B NM	8214
880-6278-89	C-411	Total/NA	Solid	8015B NM	8214
880-6278-90	C-412	Total/NA	Solid	8015B NM	8214
880-6278-91	C-413	Total/NA	Solid	8015B NM	8214
880-6278-92	C-414	Total/NA	Solid	8015B NM	8214
880-6278-93	C-415	Total/NA	Solid	8015B NM	8214
880-6278-94	C-416	Total/NA	Solid	8015B NM	8214
880-6278-95	C-417	Total/NA	Solid	8015B NM	8214
880-6278-96	C-418	Total/NA	Solid	8015B NM	8214
880-6278-97	C-419	Total/NA	Solid	8015B NM	8214
880-6278-98	C-420	Total/NA	Solid	8015B NM	8214
880-6278-99	C-421	Total/NA	Solid	8015B NM	8214
880-6278-100	C-422	Total/NA	Solid	8015B NM	8214
880-6278-141	C-463	Total/NA	Solid	8015B NM	8242
880-6278-142	C-464	Total/NA	Solid	8015B NM	8242
880-6278-143	C-465	Total/NA	Solid	8015B NM	8242
880-6278-144	C-466	Total/NA	Solid	8015B NM	8242
MB 880-8214/1-A	Method Blank	Total/NA	Solid	8015B NM	8214
MB 880-8242/1-A	Method Blank	Total/NA	Solid	8015B NM	8242
LCS 880-8214/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8214
LCS 880-8242/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8242
LCSD 880-8214/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8214
LCSD 880-8242/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8242
880-6278-81 MS	C-403	Total/NA	Solid	8015B NM	8214
880-6278-81 MSD	C-403	Total/NA	Solid	8015B NM	8214
880-6278-141 MS	C-463	Total/NA	Solid	8015B NM	8242
880-6278-141 MSD	C-463	Total/NA	Solid	8015B NM	8242

Prep Batch: 8240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-121	C-443	Total/NA	Solid	8015NM Prep	
880-6278-122	C-444	Total/NA	Solid	8015NM Prep	
880-6278-123	C-445	Total/NA	Solid	8015NM Prep	
880-6278-124	C-446	Total/NA	Solid	8015NM Prep	
880-6278-125	C-447	Total/NA	Solid	8015NM Prep	
880-6278-126	C-448	Total/NA	Solid	8015NM Prep	
880-6278-127	C-449	Total/NA	Solid	8015NM Prep	
880-6278-128	C-450	Total/NA	Solid	8015NM Prep	
880-6278-129	C-451	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 8240 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-130	C-452	Total/NA	Solid	8015NM Prep	
880-6278-131	C-453	Total/NA	Solid	8015NM Prep	
880-6278-132	C-454	Total/NA	Solid	8015NM Prep	
880-6278-133	C-455	Total/NA	Solid	8015NM Prep	
880-6278-134	C-456	Total/NA	Solid	8015NM Prep	
880-6278-135	C-457	Total/NA	Solid	8015NM Prep	
880-6278-136	C-458	Total/NA	Solid	8015NM Prep	
880-6278-137	C-459	Total/NA	Solid	8015NM Prep	
880-6278-138	C-460	Total/NA	Solid	8015NM Prep	
880-6278-139	C-461	Total/NA	Solid	8015NM Prep	
880-6278-140	C-462	Total/NA	Solid	8015NM Prep	
MB 880-8240/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8240/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8240/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6278-121 MS	C-443	Total/NA	Solid	8015NM Prep	
880-6278-121 MSD	C-443	Total/NA	Solid	8015NM Prep	

Prep Batch: 8242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-141	C-463	Total/NA	Solid	8015NM Prep	
880-6278-142	C-464	Total/NA	Solid	8015NM Prep	
880-6278-143	C-465	Total/NA	Solid	8015NM Prep	
880-6278-144	C-466	Total/NA	Solid	8015NM Prep	
MB 880-8242/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8242/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8242/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6278-141 MS	C-463	Total/NA	Solid	8015NM Prep	
880-6278-141 MSD	C-463	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8214/1-A	Method Blank	Total/NA	Solid	8015B NM	8214
LCS 880-8214/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8214
LCSD 880-8214/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8214
880-6278-81 MS	C-403	Total/NA	Solid	8015B NM	8214
880-6278-81 MSD	C-403	Total/NA	Solid	8015B NM	8214

Analysis Batch: 8294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-101	C-423	Total/NA	Solid	8015B NM	8217
880-6278-102	C-424	Total/NA	Solid	8015B NM	8217
880-6278-103	C-425	Total/NA	Solid	8015B NM	8217
880-6278-104	C-426	Total/NA	Solid	8015B NM	8217
880-6278-105	C-427	Total/NA	Solid	8015B NM	8217
880-6278-106	C-428	Total/NA	Solid	8015B NM	8217
880-6278-107	C-429	Total/NA	Solid	8015B NM	8217
880-6278-108	C-430	Total/NA	Solid	8015B NM	8217
880-6278-109	C-431	Total/NA	Solid	8015B NM	8217
880-6278-110	C-432	Total/NA	Solid	8015B NM	8217
880-6278-111	C-433	Total/NA	Solid	8015B NM	8217
880-6278-112	C-434	Total/NA	Solid	8015B NM	8217

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-113	C-435	Total/NA	Solid	8015B NM	8217
880-6278-114	C-436	Total/NA	Solid	8015B NM	8217
880-6278-115	C-437	Total/NA	Solid	8015B NM	8217
880-6278-116	C-438	Total/NA	Solid	8015B NM	8217
880-6278-117	C-439	Total/NA	Solid	8015B NM	8217
880-6278-118	C-440	Total/NA	Solid	8015B NM	8217
880-6278-119	C-441	Total/NA	Solid	8015B NM	8217
880-6278-120	C-442	Total/NA	Solid	8015B NM	8217
MB 880-8217/1-A	Method Blank	Total/NA	Solid	8015B NM	8217
LCS 880-8217/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8217
LCSD 880-8217/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8217
880-6278-101 MS	C-423	Total/NA	Solid	8015B NM	8217
880-6278-101 MSD	C-423	Total/NA	Solid	8015B NM	8217

Analysis Batch: 8296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-121	C-443	Total/NA	Solid	8015B NM	8240
880-6278-122	C-444	Total/NA	Solid	8015B NM	8240
880-6278-123	C-445	Total/NA	Solid	8015B NM	8240
880-6278-124	C-446	Total/NA	Solid	8015B NM	8240
880-6278-125	C-447	Total/NA	Solid	8015B NM	8240
880-6278-126	C-448	Total/NA	Solid	8015B NM	8240
880-6278-127	C-449	Total/NA	Solid	8015B NM	8240
880-6278-128	C-450	Total/NA	Solid	8015B NM	8240
880-6278-129	C-451	Total/NA	Solid	8015B NM	8240
880-6278-130	C-452	Total/NA	Solid	8015B NM	8240
880-6278-131	C-453	Total/NA	Solid	8015B NM	8240
880-6278-132	C-454	Total/NA	Solid	8015B NM	8240
880-6278-133	C-455	Total/NA	Solid	8015B NM	8240
880-6278-134	C-456	Total/NA	Solid	8015B NM	8240
880-6278-135	C-457	Total/NA	Solid	8015B NM	8240
880-6278-136	C-458	Total/NA	Solid	8015B NM	8240
880-6278-137	C-459	Total/NA	Solid	8015B NM	8240
880-6278-138	C-460	Total/NA	Solid	8015B NM	8240
880-6278-139	C-461	Total/NA	Solid	8015B NM	8240
880-6278-140	C-462	Total/NA	Solid	8015B NM	8240
MB 880-8240/1-A	Method Blank	Total/NA	Solid	8015B NM	8240
LCS 880-8240/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8240
LCSD 880-8240/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8240
880-6278-121 MS	C-443	Total/NA	Solid	8015B NM	8240
880-6278-121 MSD	C-443	Total/NA	Solid	8015B NM	8240

Analysis Batch: 8405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-21	C-343	Total/NA	Solid	8015B NM	8196
880-6278-22	C-344	Total/NA	Solid	8015B NM	8196
880-6278-23	C-345	Total/NA	Solid	8015B NM	8196
880-6278-24	C-346	Total/NA	Solid	8015B NM	8196
880-6278-25	C-347	Total/NA	Solid	8015B NM	8196
880-6278-26	C-348	Total/NA	Solid	8015B NM	8196
880-6278-27	C-349	Total/NA	Solid	8015B NM	8196

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8405 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-28	C-350	Total/NA	Solid	8015B NM	8196
880-6278-29	C-351	Total/NA	Solid	8015B NM	8196
880-6278-30	C-352	Total/NA	Solid	8015B NM	8196
880-6278-31	C-353	Total/NA	Solid	8015B NM	8196
880-6278-32	C-354	Total/NA	Solid	8015B NM	8196
880-6278-33	C-355	Total/NA	Solid	8015B NM	8196
880-6278-34	C-356	Total/NA	Solid	8015B NM	8196
880-6278-35	C-357	Total/NA	Solid	8015B NM	8196
880-6278-36	C-358	Total/NA	Solid	8015B NM	8196
880-6278-37	C-359	Total/NA	Solid	8015B NM	8196
880-6278-38	C-360	Total/NA	Solid	8015B NM	8196
880-6278-39	C-361	Total/NA	Solid	8015B NM	8196
880-6278-40	C-362	Total/NA	Solid	8015B NM	8196
MB 880-8196/1-A	Method Blank	Total/NA	Solid	8015B NM	8196
LCS 880-8196/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8196
LCSD 880-8196/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8196
880-6278-21 MS	C-343	Total/NA	Solid	8015B NM	8196
880-6278-21 MSD	C-343	Total/NA	Solid	8015B NM	8196

Analysis Batch: 8407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-41	C-363	Total/NA	Solid	8015B NM	8197
880-6278-42	C-364	Total/NA	Solid	8015B NM	8197
880-6278-43	C-365	Total/NA	Solid	8015B NM	8197
880-6278-44	C-366	Total/NA	Solid	8015B NM	8197
880-6278-45	C-367	Total/NA	Solid	8015B NM	8197
880-6278-46	C-368	Total/NA	Solid	8015B NM	8197
MB 880-8197/1-A	Method Blank	Total/NA	Solid	8015B NM	8197
LCS 880-8197/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8197
LCSD 880-8197/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8197
880-6278-41 MS	C-363	Total/NA	Solid	8015B NM	8197
880-6278-41 MSD	C-363	Total/NA	Solid	8015B NM	8197

Prep Batch: 8426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-47	C-369	Total/NA	Solid	8015NM Prep	
880-6278-48	C-370	Total/NA	Solid	8015NM Prep	
880-6278-49	C-371	Total/NA	Solid	8015NM Prep	
880-6278-50	C-372	Total/NA	Solid	8015NM Prep	
880-6278-51	C-373	Total/NA	Solid	8015NM Prep	
880-6278-52	C-374	Total/NA	Solid	8015NM Prep	
880-6278-53	C-375	Total/NA	Solid	8015NM Prep	
MB 880-8426/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8426/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8426/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6278-47 MS	C-369	Total/NA	Solid	8015NM Prep	
880-6278-47 MSD	C-369	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-47	C-369	Total/NA	Solid	8015B NM	8426

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-48	C-370	Total/NA	Solid	8015B NM	8426
880-6278-49	C-371	Total/NA	Solid	8015B NM	8426
880-6278-50	C-372	Total/NA	Solid	8015B NM	8426
880-6278-51	C-373	Total/NA	Solid	8015B NM	8426
880-6278-52	C-374	Total/NA	Solid	8015B NM	8426
880-6278-53	C-375	Total/NA	Solid	8015B NM	8426
MB 880-8426/1-A	Method Blank	Total/NA	Solid	8015B NM	8426
LCS 880-8426/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8426
LCSD 880-8426/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8426
880-6278-47 MS	C-369	Total/NA	Solid	8015B NM	8426
880-6278-47 MSD	C-369	Total/NA	Solid	8015B NM	8426

Analysis Batch: 8429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-54	C-376	Total/NA	Solid	8015B NM	8435
880-6278-55	C-377	Total/NA	Solid	8015B NM	8435
880-6278-56	C-378	Total/NA	Solid	8015B NM	8435
880-6278-57	C-379	Total/NA	Solid	8015B NM	8435
880-6278-58	C-380	Total/NA	Solid	8015B NM	8435
880-6278-59	C-381	Total/NA	Solid	8015B NM	8435
880-6278-60	C-382	Total/NA	Solid	8015B NM	8435
MB 880-8435/1-A	Method Blank	Total/NA	Solid	8015B NM	8435
LCS 880-8435/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8435
LCSD 880-8435/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8435
880-6278-54 MS	C-376	Total/NA	Solid	8015B NM	8435
880-6278-54 MSD	C-376	Total/NA	Solid	8015B NM	8435

Prep Batch: 8435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-54	C-376	Total/NA	Solid	8015NM Prep	
880-6278-55	C-377	Total/NA	Solid	8015NM Prep	
880-6278-56	C-378	Total/NA	Solid	8015NM Prep	
880-6278-57	C-379	Total/NA	Solid	8015NM Prep	
880-6278-58	C-380	Total/NA	Solid	8015NM Prep	
880-6278-59	C-381	Total/NA	Solid	8015NM Prep	
880-6278-60	C-382	Total/NA	Solid	8015NM Prep	
MB 880-8435/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8435/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8435/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6278-54 MS	C-376	Total/NA	Solid	8015NM Prep	
880-6278-54 MSD	C-376	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-41	C-363	Total/NA	Solid	8015 NM	
880-6278-42	C-364	Total/NA	Solid	8015 NM	
880-6278-43	C-365	Total/NA	Solid	8015 NM	
880-6278-44	C-366	Total/NA	Solid	8015 NM	
880-6278-45	C-367	Total/NA	Solid	8015 NM	
880-6278-46	C-368	Total/NA	Solid	8015 NM	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 8594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-47	C-369	Total/NA	Solid	8015 NM	
880-6278-48	C-370	Total/NA	Solid	8015 NM	
880-6278-49	C-371	Total/NA	Solid	8015 NM	
880-6278-50	C-372	Total/NA	Solid	8015 NM	
880-6278-51	C-373	Total/NA	Solid	8015 NM	
880-6278-52	C-374	Total/NA	Solid	8015 NM	
880-6278-53	C-375	Total/NA	Solid	8015 NM	

Analysis Batch: 8604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-54	C-376	Total/NA	Solid	8015 NM	
880-6278-55	C-377	Total/NA	Solid	8015 NM	
880-6278-56	C-378	Total/NA	Solid	8015 NM	
880-6278-57	C-379	Total/NA	Solid	8015 NM	
880-6278-58	C-380	Total/NA	Solid	8015 NM	
880-6278-59	C-381	Total/NA	Solid	8015 NM	
880-6278-60	C-382	Total/NA	Solid	8015 NM	

Analysis Batch: 8612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-1	C-323	Total/NA	Solid	8015 NM	
880-6278-2	C-324	Total/NA	Solid	8015 NM	
880-6278-3	C-325	Total/NA	Solid	8015 NM	
880-6278-4	C-326	Total/NA	Solid	8015 NM	
880-6278-5	C-327	Total/NA	Solid	8015 NM	
880-6278-6	C-328	Total/NA	Solid	8015 NM	
880-6278-7	C-329	Total/NA	Solid	8015 NM	
880-6278-8	C-330	Total/NA	Solid	8015 NM	
880-6278-9	C-331	Total/NA	Solid	8015 NM	
880-6278-10	C-332	Total/NA	Solid	8015 NM	
880-6278-11	C-333	Total/NA	Solid	8015 NM	
880-6278-12	C-334	Total/NA	Solid	8015 NM	
880-6278-13	C-335	Total/NA	Solid	8015 NM	
880-6278-14	C-336	Total/NA	Solid	8015 NM	
880-6278-15	C-337	Total/NA	Solid	8015 NM	
880-6278-16	C-338	Total/NA	Solid	8015 NM	
880-6278-17	C-339	Total/NA	Solid	8015 NM	
880-6278-18	C-340	Total/NA	Solid	8015 NM	
880-6278-19	C-341	Total/NA	Solid	8015 NM	
880-6278-20	C-342	Total/NA	Solid	8015 NM	
880-6278-21	C-343	Total/NA	Solid	8015 NM	
880-6278-22	C-344	Total/NA	Solid	8015 NM	
880-6278-23	C-345	Total/NA	Solid	8015 NM	
880-6278-24	C-346	Total/NA	Solid	8015 NM	
880-6278-25	C-347	Total/NA	Solid	8015 NM	
880-6278-26	C-348	Total/NA	Solid	8015 NM	
880-6278-27	C-349	Total/NA	Solid	8015 NM	
880-6278-28	C-350	Total/NA	Solid	8015 NM	
880-6278-29	C-351	Total/NA	Solid	8015 NM	
880-6278-30	C-352	Total/NA	Solid	8015 NM	
880-6278-31	C-353	Total/NA	Solid	8015 NM	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8612 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-32	C-354	Total/NA	Solid	8015 NM	
880-6278-33	C-355	Total/NA	Solid	8015 NM	
880-6278-34	C-356	Total/NA	Solid	8015 NM	
880-6278-35	C-357	Total/NA	Solid	8015 NM	
880-6278-36	C-358	Total/NA	Solid	8015 NM	
880-6278-37	C-359	Total/NA	Solid	8015 NM	
880-6278-38	C-360	Total/NA	Solid	8015 NM	
880-6278-39	C-361	Total/NA	Solid	8015 NM	
880-6278-40	C-362	Total/NA	Solid	8015 NM	
880-6278-61	C-383	Total/NA	Solid	8015 NM	
880-6278-62	C-384	Total/NA	Solid	8015 NM	
880-6278-63	C-385	Total/NA	Solid	8015 NM	
880-6278-64	C-386	Total/NA	Solid	8015 NM	
880-6278-65	C-387	Total/NA	Solid	8015 NM	
880-6278-66	C-388	Total/NA	Solid	8015 NM	
880-6278-67	C-389	Total/NA	Solid	8015 NM	
880-6278-68	C-390	Total/NA	Solid	8015 NM	
880-6278-69	C-391	Total/NA	Solid	8015 NM	
880-6278-70	C-392	Total/NA	Solid	8015 NM	
880-6278-71	C-393	Total/NA	Solid	8015 NM	
880-6278-72	C-394	Total/NA	Solid	8015 NM	
880-6278-73	C-395	Total/NA	Solid	8015 NM	
880-6278-74	C-396	Total/NA	Solid	8015 NM	
880-6278-75	C-397	Total/NA	Solid	8015 NM	
880-6278-76	C-398	Total/NA	Solid	8015 NM	
880-6278-77	C-399	Total/NA	Solid	8015 NM	
880-6278-78	C-400	Total/NA	Solid	8015 NM	
880-6278-79	C-401	Total/NA	Solid	8015 NM	
880-6278-80	C-402	Total/NA	Solid	8015 NM	
880-6278-81	C-403	Total/NA	Solid	8015 NM	
880-6278-82	C-404	Total/NA	Solid	8015 NM	
880-6278-83	C-405	Total/NA	Solid	8015 NM	
880-6278-84	C-406	Total/NA	Solid	8015 NM	
880-6278-85	C-407	Total/NA	Solid	8015 NM	
880-6278-86	C-408	Total/NA	Solid	8015 NM	
880-6278-87	C-409	Total/NA	Solid	8015 NM	
880-6278-88	C-410	Total/NA	Solid	8015 NM	
880-6278-89	C-411	Total/NA	Solid	8015 NM	
880-6278-90	C-412	Total/NA	Solid	8015 NM	
880-6278-91	C-413	Total/NA	Solid	8015 NM	
880-6278-92	C-414	Total/NA	Solid	8015 NM	
880-6278-93	C-415	Total/NA	Solid	8015 NM	
880-6278-94	C-416	Total/NA	Solid	8015 NM	
880-6278-95	C-417	Total/NA	Solid	8015 NM	
880-6278-96	C-418	Total/NA	Solid	8015 NM	
880-6278-97	C-419	Total/NA	Solid	8015 NM	
880-6278-98	C-420	Total/NA	Solid	8015 NM	
880-6278-99	C-421	Total/NA	Solid	8015 NM	
880-6278-100	C-422	Total/NA	Solid	8015 NM	
880-6278-101	C-423	Total/NA	Solid	8015 NM	
880-6278-102	C-424	Total/NA	Solid	8015 NM	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8612 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-103	C-425	Total/NA	Solid	8015 NM	
880-6278-104	C-426	Total/NA	Solid	8015 NM	
880-6278-105	C-427	Total/NA	Solid	8015 NM	
880-6278-106	C-428	Total/NA	Solid	8015 NM	
880-6278-107	C-429	Total/NA	Solid	8015 NM	
880-6278-108	C-430	Total/NA	Solid	8015 NM	
880-6278-109	C-431	Total/NA	Solid	8015 NM	
880-6278-110	C-432	Total/NA	Solid	8015 NM	
880-6278-111	C-433	Total/NA	Solid	8015 NM	
880-6278-112	C-434	Total/NA	Solid	8015 NM	
880-6278-113	C-435	Total/NA	Solid	8015 NM	
880-6278-114	C-436	Total/NA	Solid	8015 NM	
880-6278-115	C-437	Total/NA	Solid	8015 NM	
880-6278-116	C-438	Total/NA	Solid	8015 NM	
880-6278-117	C-439	Total/NA	Solid	8015 NM	
880-6278-118	C-440	Total/NA	Solid	8015 NM	
880-6278-119	C-441	Total/NA	Solid	8015 NM	
880-6278-120	C-442	Total/NA	Solid	8015 NM	
880-6278-121	C-443	Total/NA	Solid	8015 NM	
880-6278-122	C-444	Total/NA	Solid	8015 NM	
880-6278-123	C-445	Total/NA	Solid	8015 NM	
880-6278-124	C-446	Total/NA	Solid	8015 NM	
880-6278-125	C-447	Total/NA	Solid	8015 NM	
880-6278-126	C-448	Total/NA	Solid	8015 NM	
880-6278-127	C-449	Total/NA	Solid	8015 NM	
880-6278-128	C-450	Total/NA	Solid	8015 NM	
880-6278-129	C-451	Total/NA	Solid	8015 NM	
880-6278-130	C-452	Total/NA	Solid	8015 NM	
880-6278-131	C-453	Total/NA	Solid	8015 NM	
880-6278-132	C-454	Total/NA	Solid	8015 NM	
880-6278-133	C-455	Total/NA	Solid	8015 NM	
880-6278-134	C-456	Total/NA	Solid	8015 NM	
880-6278-135	C-457	Total/NA	Solid	8015 NM	
880-6278-136	C-458	Total/NA	Solid	8015 NM	
880-6278-137	C-459	Total/NA	Solid	8015 NM	
880-6278-138	C-460	Total/NA	Solid	8015 NM	
880-6278-139	C-461	Total/NA	Solid	8015 NM	
880-6278-140	C-462	Total/NA	Solid	8015 NM	
880-6278-141	C-463	Total/NA	Solid	8015 NM	
880-6278-142	C-464	Total/NA	Solid	8015 NM	
880-6278-143	C-465	Total/NA	Solid	8015 NM	
880-6278-144	C-466	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 8179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-1	C-323	Soluble	Solid	DI Leach	
880-6278-2	C-324	Soluble	Solid	DI Leach	
880-6278-3	C-325	Soluble	Solid	DI Leach	
880-6278-4	C-326	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8179 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8179/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8179/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8179/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6276-A-11-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-6276-A-11-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 8182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-5	C-327	Soluble	Solid	DI Leach	
880-6278-6	C-328	Soluble	Solid	DI Leach	
880-6278-7	C-329	Soluble	Solid	DI Leach	
880-6278-8	C-330	Soluble	Solid	DI Leach	
880-6278-9	C-331	Soluble	Solid	DI Leach	
880-6278-10	C-332	Soluble	Solid	DI Leach	
880-6278-11	C-333	Soluble	Solid	DI Leach	
880-6278-12	C-334	Soluble	Solid	DI Leach	
880-6278-13	C-335	Soluble	Solid	DI Leach	
880-6278-14	C-336	Soluble	Solid	DI Leach	
880-6278-15	C-337	Soluble	Solid	DI Leach	
880-6278-16	C-338	Soluble	Solid	DI Leach	
880-6278-17	C-339	Soluble	Solid	DI Leach	
880-6278-18	C-340	Soluble	Solid	DI Leach	
880-6278-19	C-341	Soluble	Solid	DI Leach	
880-6278-20	C-342	Soluble	Solid	DI Leach	
880-6278-21	C-343	Soluble	Solid	DI Leach	
880-6278-22	C-344	Soluble	Solid	DI Leach	
880-6278-23	C-345	Soluble	Solid	DI Leach	
880-6278-24	C-346	Soluble	Solid	DI Leach	
MB 880-8182/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8182/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8182/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6278-5 MS	C-327	Soluble	Solid	DI Leach	
880-6278-5 MSD	C-327	Soluble	Solid	DI Leach	
880-6278-15 MS	C-337	Soluble	Solid	DI Leach	
880-6278-15 MSD	C-337	Soluble	Solid	DI Leach	

Leach Batch: 8187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-25	C-347	Soluble	Solid	DI Leach	
880-6278-26	C-348	Soluble	Solid	DI Leach	
880-6278-27	C-349	Soluble	Solid	DI Leach	
880-6278-28	C-350	Soluble	Solid	DI Leach	
880-6278-29	C-351	Soluble	Solid	DI Leach	
880-6278-30	C-352	Soluble	Solid	DI Leach	
880-6278-31	C-353	Soluble	Solid	DI Leach	
880-6278-32	C-354	Soluble	Solid	DI Leach	
880-6278-33	C-355	Soluble	Solid	DI Leach	
880-6278-34	C-356	Soluble	Solid	DI Leach	
880-6278-35	C-357	Soluble	Solid	DI Leach	
880-6278-36	C-358	Soluble	Solid	DI Leach	
880-6278-37	C-359	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-38	C-360	Soluble	Solid	DI Leach	
880-6278-39	C-361	Soluble	Solid	DI Leach	
880-6278-40	C-362	Soluble	Solid	DI Leach	
880-6278-41	C-363	Soluble	Solid	DI Leach	
880-6278-42	C-364	Soluble	Solid	DI Leach	
880-6278-43	C-365	Soluble	Solid	DI Leach	
880-6278-44	C-366	Soluble	Solid	DI Leach	
MB 880-8187/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8187/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8187/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6278-25 MS	C-347	Soluble	Solid	DI Leach	
880-6278-25 MSD	C-347	Soluble	Solid	DI Leach	
880-6278-35 MS	C-357	Soluble	Solid	DI Leach	
880-6278-35 MSD	C-357	Soluble	Solid	DI Leach	

Leach Batch: 8188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-45	C-367	Soluble	Solid	DI Leach	
880-6278-46	C-368	Soluble	Solid	DI Leach	
880-6278-47	C-369	Soluble	Solid	DI Leach	
880-6278-48	C-370	Soluble	Solid	DI Leach	
880-6278-49	C-371	Soluble	Solid	DI Leach	
880-6278-50	C-372	Soluble	Solid	DI Leach	
880-6278-51	C-373	Soluble	Solid	DI Leach	
880-6278-52	C-374	Soluble	Solid	DI Leach	
880-6278-53	C-375	Soluble	Solid	DI Leach	
880-6278-54	C-376	Soluble	Solid	DI Leach	
880-6278-55	C-377	Soluble	Solid	DI Leach	
880-6278-56	C-378	Soluble	Solid	DI Leach	
880-6278-57	C-379	Soluble	Solid	DI Leach	
880-6278-60	C-382	Soluble	Solid	DI Leach	
880-6278-61	C-383	Soluble	Solid	DI Leach	
880-6278-62	C-384	Soluble	Solid	DI Leach	
880-6278-63	C-385	Soluble	Solid	DI Leach	
880-6278-64	C-386	Soluble	Solid	DI Leach	
MB 880-8188/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8188/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8188/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6278-45 MS	C-367	Soluble	Solid	DI Leach	
880-6278-45 MSD	C-367	Soluble	Solid	DI Leach	
880-6278-55 MS	C-377	Soluble	Solid	DI Leach	
880-6278-55 MSD	C-377	Soluble	Solid	DI Leach	

Leach Batch: 8189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-65	C-387	Soluble	Solid	DI Leach	
880-6278-66	C-388	Soluble	Solid	DI Leach	
880-6278-67	C-389	Soluble	Solid	DI Leach	
880-6278-68	C-390	Soluble	Solid	DI Leach	
880-6278-69	C-391	Soluble	Solid	DI Leach	
880-6278-70	C-392	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8189 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-71	C-393	Soluble	Solid	DI Leach	
880-6278-72	C-394	Soluble	Solid	DI Leach	
880-6278-73	C-395	Soluble	Solid	DI Leach	
880-6278-74	C-396	Soluble	Solid	DI Leach	
880-6278-75	C-397	Soluble	Solid	DI Leach	
880-6278-76	C-398	Soluble	Solid	DI Leach	
880-6278-77	C-399	Soluble	Solid	DI Leach	
880-6278-78	C-400	Soluble	Solid	DI Leach	
880-6278-79	C-401	Soluble	Solid	DI Leach	
880-6278-80	C-402	Soluble	Solid	DI Leach	
880-6278-81	C-403	Soluble	Solid	DI Leach	
880-6278-82	C-404	Soluble	Solid	DI Leach	
880-6278-83	C-405	Soluble	Solid	DI Leach	
880-6278-84	C-406	Soluble	Solid	DI Leach	
MB 880-8189/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8189/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8189/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6278-65 MS	C-387	Soluble	Solid	DI Leach	
880-6278-65 MSD	C-387	Soluble	Solid	DI Leach	
880-6278-75 MS	C-397	Soluble	Solid	DI Leach	
880-6278-75 MSD	C-397	Soluble	Solid	DI Leach	

Leach Batch: 8190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-85	C-407	Soluble	Solid	DI Leach	
880-6278-86	C-408	Soluble	Solid	DI Leach	
880-6278-87	C-409	Soluble	Solid	DI Leach	
880-6278-88	C-410	Soluble	Solid	DI Leach	
880-6278-89	C-411	Soluble	Solid	DI Leach	
880-6278-90	C-412	Soluble	Solid	DI Leach	
880-6278-91	C-413	Soluble	Solid	DI Leach	
880-6278-92	C-414	Soluble	Solid	DI Leach	
880-6278-93	C-415	Soluble	Solid	DI Leach	
880-6278-94	C-416	Soluble	Solid	DI Leach	
880-6278-95	C-417	Soluble	Solid	DI Leach	
880-6278-96	C-418	Soluble	Solid	DI Leach	
880-6278-97	C-419	Soluble	Solid	DI Leach	
880-6278-98	C-420	Soluble	Solid	DI Leach	
880-6278-99	C-421	Soluble	Solid	DI Leach	
880-6278-100	C-422	Soluble	Solid	DI Leach	
880-6278-101	C-423	Soluble	Solid	DI Leach	
880-6278-102	C-424	Soluble	Solid	DI Leach	
880-6278-103	C-425	Soluble	Solid	DI Leach	
880-6278-104	C-426	Soluble	Solid	DI Leach	
MB 880-8190/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8190/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8190/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6278-85 MS	C-407	Soluble	Solid	DI Leach	
880-6278-85 MSD	C-407	Soluble	Solid	DI Leach	
880-6278-95 MS	C-417	Soluble	Solid	DI Leach	
880-6278-95 MSD	C-417	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 8191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-105	C-427	Soluble	Solid	DI Leach	
880-6278-106	C-428	Soluble	Solid	DI Leach	
880-6278-107	C-429	Soluble	Solid	DI Leach	
880-6278-108	C-430	Soluble	Solid	DI Leach	
880-6278-109	C-431	Soluble	Solid	DI Leach	
880-6278-110	C-432	Soluble	Solid	DI Leach	
880-6278-111	C-433	Soluble	Solid	DI Leach	
880-6278-112	C-434	Soluble	Solid	DI Leach	
880-6278-113	C-435	Soluble	Solid	DI Leach	
880-6278-114	C-436	Soluble	Solid	DI Leach	
880-6278-115	C-437	Soluble	Solid	DI Leach	
880-6278-116	C-438	Soluble	Solid	DI Leach	
880-6278-117	C-439	Soluble	Solid	DI Leach	
880-6278-118	C-440	Soluble	Solid	DI Leach	
880-6278-119	C-441	Soluble	Solid	DI Leach	
880-6278-120	C-442	Soluble	Solid	DI Leach	
880-6278-121	C-443	Soluble	Solid	DI Leach	
880-6278-122	C-444	Soluble	Solid	DI Leach	
880-6278-123	C-445	Soluble	Solid	DI Leach	
880-6278-124	C-446	Soluble	Solid	DI Leach	
MB 880-8191/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8191/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8191/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6278-105 MS	C-427	Soluble	Solid	DI Leach	
880-6278-105 MSD	C-427	Soluble	Solid	DI Leach	
880-6278-115 MS	C-437	Soluble	Solid	DI Leach	
880-6278-115 MSD	C-437	Soluble	Solid	DI Leach	

Leach Batch: 8192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-125	C-447	Soluble	Solid	DI Leach	
880-6278-126	C-448	Soluble	Solid	DI Leach	
880-6278-127	C-449	Soluble	Solid	DI Leach	
880-6278-128	C-450	Soluble	Solid	DI Leach	
880-6278-129	C-451	Soluble	Solid	DI Leach	
880-6278-130	C-452	Soluble	Solid	DI Leach	
880-6278-131	C-453	Soluble	Solid	DI Leach	
880-6278-132	C-454	Soluble	Solid	DI Leach	
880-6278-133	C-455	Soluble	Solid	DI Leach	
880-6278-134	C-456	Soluble	Solid	DI Leach	
880-6278-135	C-457	Soluble	Solid	DI Leach	
880-6278-136	C-458	Soluble	Solid	DI Leach	
880-6278-137	C-459	Soluble	Solid	DI Leach	
880-6278-138	C-460	Soluble	Solid	DI Leach	
880-6278-139	C-461	Soluble	Solid	DI Leach	
880-6278-140	C-462	Soluble	Solid	DI Leach	
880-6278-141	C-463	Soluble	Solid	DI Leach	
880-6278-142	C-464	Soluble	Solid	DI Leach	
880-6278-143	C-465	Soluble	Solid	DI Leach	
880-6278-144	C-466	Soluble	Solid	DI Leach	
MB 880-8192/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8192 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-8192/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8192/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6278-125 MS	C-447	Soluble	Solid	DI Leach	
880-6278-125 MSD	C-447	Soluble	Solid	DI Leach	
880-6278-135 MS	C-457	Soluble	Solid	DI Leach	
880-6278-135 MSD	C-457	Soluble	Solid	DI Leach	

Analysis Batch: 8332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-1	C-323	Soluble	Solid	300.0	8179
880-6278-2	C-324	Soluble	Solid	300.0	8179
880-6278-3	C-325	Soluble	Solid	300.0	8179
880-6278-4	C-326	Soluble	Solid	300.0	8179
MB 880-8179/1-A	Method Blank	Soluble	Solid	300.0	8179
LCS 880-8179/2-A	Lab Control Sample	Soluble	Solid	300.0	8179
LCSD 880-8179/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8179
880-6276-A-11-F MS	Matrix Spike	Soluble	Solid	300.0	8179
880-6276-A-11-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8179

Analysis Batch: 8333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-5	C-327	Soluble	Solid	300.0	8182
880-6278-6	C-328	Soluble	Solid	300.0	8182
880-6278-7	C-329	Soluble	Solid	300.0	8182
880-6278-8	C-330	Soluble	Solid	300.0	8182
880-6278-9	C-331	Soluble	Solid	300.0	8182
880-6278-10	C-332	Soluble	Solid	300.0	8182
880-6278-11	C-333	Soluble	Solid	300.0	8182
880-6278-12	C-334	Soluble	Solid	300.0	8182
880-6278-13	C-335	Soluble	Solid	300.0	8182
880-6278-14	C-336	Soluble	Solid	300.0	8182
880-6278-15	C-337	Soluble	Solid	300.0	8182
880-6278-16	C-338	Soluble	Solid	300.0	8182
880-6278-17	C-339	Soluble	Solid	300.0	8182
880-6278-18	C-340	Soluble	Solid	300.0	8182
880-6278-19	C-341	Soluble	Solid	300.0	8182
880-6278-20	C-342	Soluble	Solid	300.0	8182
880-6278-21	C-343	Soluble	Solid	300.0	8182
880-6278-22	C-344	Soluble	Solid	300.0	8182
880-6278-23	C-345	Soluble	Solid	300.0	8182
880-6278-24	C-346	Soluble	Solid	300.0	8182
MB 880-8182/1-A	Method Blank	Soluble	Solid	300.0	8182
LCS 880-8182/2-A	Lab Control Sample	Soluble	Solid	300.0	8182
LCSD 880-8182/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8182
880-6278-5 MS	C-327	Soluble	Solid	300.0	8182
880-6278-5 MSD	C-327	Soluble	Solid	300.0	8182
880-6278-15 MS	C-337	Soluble	Solid	300.0	8182
880-6278-15 MSD	C-337	Soluble	Solid	300.0	8182

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 8334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-25	C-347	Soluble	Solid	300.0	8187
880-6278-26	C-348	Soluble	Solid	300.0	8187
880-6278-27	C-349	Soluble	Solid	300.0	8187
880-6278-28	C-350	Soluble	Solid	300.0	8187
880-6278-29	C-351	Soluble	Solid	300.0	8187
880-6278-30	C-352	Soluble	Solid	300.0	8187
880-6278-31	C-353	Soluble	Solid	300.0	8187
880-6278-32	C-354	Soluble	Solid	300.0	8187
880-6278-33	C-355	Soluble	Solid	300.0	8187
880-6278-34	C-356	Soluble	Solid	300.0	8187
880-6278-35	C-357	Soluble	Solid	300.0	8187
880-6278-36	C-358	Soluble	Solid	300.0	8187
880-6278-37	C-359	Soluble	Solid	300.0	8187
880-6278-38	C-360	Soluble	Solid	300.0	8187
880-6278-39	C-361	Soluble	Solid	300.0	8187
880-6278-40	C-362	Soluble	Solid	300.0	8187
880-6278-41	C-363	Soluble	Solid	300.0	8187
880-6278-42	C-364	Soluble	Solid	300.0	8187
880-6278-43	C-365	Soluble	Solid	300.0	8187
880-6278-44	C-366	Soluble	Solid	300.0	8187
MB 880-8187/1-A	Method Blank	Soluble	Solid	300.0	8187
LCS 880-8187/2-A	Lab Control Sample	Soluble	Solid	300.0	8187
LCSD 880-8187/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8187
880-6278-25 MS	C-347	Soluble	Solid	300.0	8187
880-6278-25 MSD	C-347	Soluble	Solid	300.0	8187
880-6278-35 MS	C-357	Soluble	Solid	300.0	8187
880-6278-35 MSD	C-357	Soluble	Solid	300.0	8187

Analysis Batch: 8336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-65	C-387	Soluble	Solid	300.0	8189
880-6278-66	C-388	Soluble	Solid	300.0	8189
880-6278-67	C-389	Soluble	Solid	300.0	8189
880-6278-68	C-390	Soluble	Solid	300.0	8189
880-6278-69	C-391	Soluble	Solid	300.0	8189
880-6278-70	C-392	Soluble	Solid	300.0	8189
880-6278-71	C-393	Soluble	Solid	300.0	8189
880-6278-72	C-394	Soluble	Solid	300.0	8189
880-6278-73	C-395	Soluble	Solid	300.0	8189
880-6278-74	C-396	Soluble	Solid	300.0	8189
880-6278-75	C-397	Soluble	Solid	300.0	8189
880-6278-76	C-398	Soluble	Solid	300.0	8189
880-6278-77	C-399	Soluble	Solid	300.0	8189
880-6278-78	C-400	Soluble	Solid	300.0	8189
880-6278-79	C-401	Soluble	Solid	300.0	8189
880-6278-80	C-402	Soluble	Solid	300.0	8189
880-6278-81	C-403	Soluble	Solid	300.0	8189
880-6278-82	C-404	Soluble	Solid	300.0	8189
880-6278-83	C-405	Soluble	Solid	300.0	8189
880-6278-84	C-406	Soluble	Solid	300.0	8189
MB 880-8189/1-A	Method Blank	Soluble	Solid	300.0	8189

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 8336 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-8189/2-A	Lab Control Sample	Soluble	Solid	300.0	8189
LCSD 880-8189/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8189
880-6278-65 MS	C-387	Soluble	Solid	300.0	8189
880-6278-65 MSD	C-387	Soluble	Solid	300.0	8189
880-6278-75 MS	C-397	Soluble	Solid	300.0	8189
880-6278-75 MSD	C-397	Soluble	Solid	300.0	8189

Analysis Batch: 8337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-85	C-407	Soluble	Solid	300.0	8190
880-6278-86	C-408	Soluble	Solid	300.0	8190
880-6278-87	C-409	Soluble	Solid	300.0	8190
880-6278-88	C-410	Soluble	Solid	300.0	8190
880-6278-89	C-411	Soluble	Solid	300.0	8190
880-6278-90	C-412	Soluble	Solid	300.0	8190
880-6278-91	C-413	Soluble	Solid	300.0	8190
880-6278-92	C-414	Soluble	Solid	300.0	8190
880-6278-93	C-415	Soluble	Solid	300.0	8190
880-6278-94	C-416	Soluble	Solid	300.0	8190
880-6278-95	C-417	Soluble	Solid	300.0	8190
880-6278-96	C-418	Soluble	Solid	300.0	8190
880-6278-97	C-419	Soluble	Solid	300.0	8190
880-6278-98	C-420	Soluble	Solid	300.0	8190
880-6278-99	C-421	Soluble	Solid	300.0	8190
880-6278-100	C-422	Soluble	Solid	300.0	8190
880-6278-101	C-423	Soluble	Solid	300.0	8190
880-6278-102	C-424	Soluble	Solid	300.0	8190
880-6278-103	C-425	Soluble	Solid	300.0	8190
880-6278-104	C-426	Soluble	Solid	300.0	8190
MB 880-8190/1-A	Method Blank	Soluble	Solid	300.0	8190
LCS 880-8190/2-A	Lab Control Sample	Soluble	Solid	300.0	8190
LCSD 880-8190/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8190
880-6278-85 MS	C-407	Soluble	Solid	300.0	8190
880-6278-85 MSD	C-407	Soluble	Solid	300.0	8190
880-6278-95 MS	C-417	Soluble	Solid	300.0	8190
880-6278-95 MSD	C-417	Soluble	Solid	300.0	8190

Analysis Batch: 8366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-105	C-427	Soluble	Solid	300.0	8191
880-6278-106	C-428	Soluble	Solid	300.0	8191
880-6278-107	C-429	Soluble	Solid	300.0	8191
880-6278-108	C-430	Soluble	Solid	300.0	8191
880-6278-109	C-431	Soluble	Solid	300.0	8191
880-6278-110	C-432	Soluble	Solid	300.0	8191
880-6278-111	C-433	Soluble	Solid	300.0	8191
880-6278-112	C-434	Soluble	Solid	300.0	8191
880-6278-113	C-435	Soluble	Solid	300.0	8191
880-6278-114	C-436	Soluble	Solid	300.0	8191
880-6278-115	C-437	Soluble	Solid	300.0	8191
880-6278-116	C-438	Soluble	Solid	300.0	8191

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 8366 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-117	C-439	Soluble	Solid	300.0	8191
880-6278-118	C-440	Soluble	Solid	300.0	8191
880-6278-119	C-441	Soluble	Solid	300.0	8191
880-6278-120	C-442	Soluble	Solid	300.0	8191
880-6278-121	C-443	Soluble	Solid	300.0	8191
880-6278-122	C-444	Soluble	Solid	300.0	8191
880-6278-123	C-445	Soluble	Solid	300.0	8191
880-6278-124	C-446	Soluble	Solid	300.0	8191
MB 880-8191/1-A	Method Blank	Soluble	Solid	300.0	8191
LCS 880-8191/2-A	Lab Control Sample	Soluble	Solid	300.0	8191
LCSD 880-8191/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8191
880-6278-105 MS	C-427	Soluble	Solid	300.0	8191
880-6278-105 MSD	C-427	Soluble	Solid	300.0	8191
880-6278-115 MS	C-437	Soluble	Solid	300.0	8191
880-6278-115 MSD	C-437	Soluble	Solid	300.0	8191

Analysis Batch: 8367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-125	C-447	Soluble	Solid	300.0	8192
880-6278-126	C-448	Soluble	Solid	300.0	8192
880-6278-127	C-449	Soluble	Solid	300.0	8192
880-6278-128	C-450	Soluble	Solid	300.0	8192
880-6278-129	C-451	Soluble	Solid	300.0	8192
880-6278-130	C-452	Soluble	Solid	300.0	8192
880-6278-131	C-453	Soluble	Solid	300.0	8192
880-6278-132	C-454	Soluble	Solid	300.0	8192
880-6278-133	C-455	Soluble	Solid	300.0	8192
880-6278-134	C-456	Soluble	Solid	300.0	8192
880-6278-135	C-457	Soluble	Solid	300.0	8192
880-6278-136	C-458	Soluble	Solid	300.0	8192
880-6278-137	C-459	Soluble	Solid	300.0	8192
880-6278-138	C-460	Soluble	Solid	300.0	8192
880-6278-139	C-461	Soluble	Solid	300.0	8192
880-6278-140	C-462	Soluble	Solid	300.0	8192
880-6278-141	C-463	Soluble	Solid	300.0	8192
880-6278-142	C-464	Soluble	Solid	300.0	8192
880-6278-143	C-465	Soluble	Solid	300.0	8192
880-6278-144	C-466	Soluble	Solid	300.0	8192
MB 880-8192/1-A	Method Blank	Soluble	Solid	300.0	8192
LCS 880-8192/2-A	Lab Control Sample	Soluble	Solid	300.0	8192
LCSD 880-8192/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8192
880-6278-125 MS	C-447	Soluble	Solid	300.0	8192
880-6278-125 MSD	C-447	Soluble	Solid	300.0	8192
880-6278-135 MS	C-457	Soluble	Solid	300.0	8192
880-6278-135 MSD	C-457	Soluble	Solid	300.0	8192

Analysis Batch: 8399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-45	C-367	Soluble	Solid	300.0	8188
880-6278-46	C-368	Soluble	Solid	300.0	8188
880-6278-47	C-369	Soluble	Solid	300.0	8188

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 8399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-48	C-370	Soluble	Solid	300.0	8188
880-6278-49	C-371	Soluble	Solid	300.0	8188
880-6278-50	C-372	Soluble	Solid	300.0	8188
880-6278-51	C-373	Soluble	Solid	300.0	8188
880-6278-52	C-374	Soluble	Solid	300.0	8188
880-6278-53	C-375	Soluble	Solid	300.0	8188
880-6278-54	C-376	Soluble	Solid	300.0	8188
880-6278-55	C-377	Soluble	Solid	300.0	8188
880-6278-56	C-378	Soluble	Solid	300.0	8188
880-6278-57	C-379	Soluble	Solid	300.0	8188
880-6278-60	C-382	Soluble	Solid	300.0	8188
880-6278-61	C-383	Soluble	Solid	300.0	8188
880-6278-62	C-384	Soluble	Solid	300.0	8188
880-6278-63	C-385	Soluble	Solid	300.0	8188
880-6278-64	C-386	Soluble	Solid	300.0	8188
MB 880-8188/1-A	Method Blank	Soluble	Solid	300.0	8188
LCS 880-8188/2-A	Lab Control Sample	Soluble	Solid	300.0	8188
LCSD 880-8188/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8188
880-6278-45 MS	C-367	Soluble	Solid	300.0	8188
880-6278-45 MSD	C-367	Soluble	Solid	300.0	8188
880-6278-55 MS	C-377	Soluble	Solid	300.0	8188
880-6278-55 MSD	C-377	Soluble	Solid	300.0	8188

Leach Batch: 8450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-58	C-380	Soluble	Solid	DI Leach	
880-6278-59	C-381	Soluble	Solid	DI Leach	
MB 880-8450/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8450/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8450/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6445-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-6445-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 8457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6278-58	C-380	Soluble	Solid	300.0	8450
880-6278-59	C-381	Soluble	Solid	300.0	8450
MB 880-8450/1-A	Method Blank	Soluble	Solid	300.0	8450
LCS 880-8450/2-A	Lab Control Sample	Soluble	Solid	300.0	8450
LCSD 880-8450/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8450
880-6445-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	8450
880-6445-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8450

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-323

Date Collected: 09/14/21 11:05

Date Received: 09/20/21 12:58

Lab Sample ID: 880-6278-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 05:09	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/21/21 23:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8179	09/21/21 09:26	CH	XEN MID
Soluble	Analysis	300.0		1			8332	09/24/21 04:16	CH	XEN MID

Client Sample ID: C-324

Date Collected: 09/14/21 11:10

Date Received: 09/20/21 12:58

Lab Sample ID: 880-6278-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 05:30	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 00:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8179	09/21/21 09:26	CH	XEN MID
Soluble	Analysis	300.0		1			8332	09/24/21 04:21	CH	XEN MID

Client Sample ID: C-325

Date Collected: 09/14/21 11:15

Date Received: 09/20/21 12:58

Lab Sample ID: 880-6278-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 05:50	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 00:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8179	09/21/21 09:26	CH	XEN MID
Soluble	Analysis	300.0		1			8332	09/24/21 04:27	CH	XEN MID

Client Sample ID: C-326

Date Collected: 09/14/21 11:20

Date Received: 09/20/21 12:58

Lab Sample ID: 880-6278-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 06:11	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 00:55	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-326

Date Collected: 09/14/21 11:20

Date Received: 09/20/21 12:58

Lab Sample ID: 880-6278-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8179	09/21/21 09:26	CH	XEN MID
Soluble	Analysis	300.0		5			8332	09/24/21 13:06	CH	XEN MID

Client Sample ID: C-327

Date Collected: 09/14/21 11:25

Date Received: 09/20/21 12:58

Lab Sample ID: 880-6278-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 06:31	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 01:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8182	09/21/21 09:29	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 05:17	CH	XEN MID

Client Sample ID: C-328

Date Collected: 09/14/21 11:27

Date Received: 09/20/21 12:58

Lab Sample ID: 880-6278-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 06:52	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 01:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8182	09/21/21 09:29	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 05:34	CH	XEN MID

Client Sample ID: C-329

Date Collected: 09/14/21 11:32

Date Received: 09/20/21 12:58

Lab Sample ID: 880-6278-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 07:13	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 01:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 05:40	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-330

Lab Sample ID: 880-6278-8

Date Collected: 09/14/21 11:36

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 07:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 02:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 05:45	CH	XEN MID

Client Sample ID: C-331

Lab Sample ID: 880-6278-9

Date Collected: 09/14/21 11:40

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 07:54	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 02:40	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		5			8333	09/24/21 05:51	CH	XEN MID

Client Sample ID: C-332

Lab Sample ID: 880-6278-10

Date Collected: 09/14/21 13:05

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 08:15	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 03:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 06:08	CH	XEN MID

Client Sample ID: C-333

Lab Sample ID: 880-6278-11

Date Collected: 09/14/21 13:10

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 09:39	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 03:43	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-333

Lab Sample ID: 880-6278-11

Date Collected: 09/14/21 13:10

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 06:13	CH	XEN MID

Client Sample ID: C-334

Lab Sample ID: 880-6278-12

Date Collected: 09/14/21 13:15

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 09:59	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 04:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 06:19	CH	XEN MID

Client Sample ID: C-335

Lab Sample ID: 880-6278-13

Date Collected: 09/14/21 13:20

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 04:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 06:25	CH	XEN MID

Client Sample ID: C-336

Lab Sample ID: 880-6278-14

Date Collected: 09/14/21 13:25

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 10:41	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 04:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 06:30	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-337

Lab Sample ID: 880-6278-15

Date Collected: 09/14/21 13:30

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 11:02	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 05:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 06:36	CH	XEN MID

Client Sample ID: C-338

Lab Sample ID: 880-6278-16

Date Collected: 09/14/21 15:24

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 11:22	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 05:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 06:53	CH	XEN MID

Client Sample ID: C-339

Lab Sample ID: 880-6278-17

Date Collected: 09/14/21 15:36

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 11:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 05:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 06:58	CH	XEN MID

Client Sample ID: C-340

Lab Sample ID: 880-6278-18

Date Collected: 09/14/21 15:48

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 12:04	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 06:10	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-340

Lab Sample ID: 880-6278-18

Date Collected: 09/14/21 15:48

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 07:15	CH	XEN MID

Client Sample ID: C-341

Lab Sample ID: 880-6278-19

Date Collected: 09/15/21 09:30

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 12:25	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 06:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 07:21	CH	XEN MID

Client Sample ID: C-342

Lab Sample ID: 880-6278-20

Date Collected: 09/15/21 09:34

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8135	09/20/21 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8145	09/21/21 12:45	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8195	09/21/21 10:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8185	09/22/21 06:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 07:26	CH	XEN MID

Client Sample ID: C-343

Lab Sample ID: 880-6278-21

Date Collected: 09/15/21 09:38

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 08:33	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 13:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 07:32	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-344

Lab Sample ID: 880-6278-22

Date Collected: 09/15/21 09:42

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 08:53	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 14:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 07:37	CH	XEN MID

Client Sample ID: C-345

Lab Sample ID: 880-6278-23

Date Collected: 09/15/21 09:46

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 09:14	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 07:43	CH	XEN MID

Client Sample ID: C-346

Lab Sample ID: 880-6278-24

Date Collected: 09/15/21 09:50

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 09:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 14:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8182	09/21/21 09:30	CH	XEN MID
Soluble	Analysis	300.0		1			8333	09/24/21 07:49	CH	XEN MID

Client Sample ID: C-347

Lab Sample ID: 880-6278-25

Date Collected: 09/15/21 09:54

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 09:56	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 15:11	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-347

Lab Sample ID: 880-6278-25

Date Collected: 09/15/21 09:54

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/23/21 22:33	CH	XEN MID

Client Sample ID: C-348

Lab Sample ID: 880-6278-26

Date Collected: 09/15/21 09:58

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 13:04	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 15:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/23/21 22:48	CH	XEN MID

Client Sample ID: C-349

Lab Sample ID: 880-6278-27

Date Collected: 09/15/21 10:02

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 13:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/23/21 22:53	CH	XEN MID

Client Sample ID: C-350

Lab Sample ID: 880-6278-28

Date Collected: 09/15/21 10:06

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 13:45	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 16:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/23/21 22:58	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-351

Lab Sample ID: 880-6278-29

Date Collected: 09/15/21 10:10

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 14:06	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/23/21 23:03	CH	XEN MID

Client Sample ID: C-352

Lab Sample ID: 880-6278-30

Date Collected: 09/15/21 10:14

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 14:27	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 17:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/23/21 23:17	CH	XEN MID

Client Sample ID: C-353

Lab Sample ID: 880-6278-31

Date Collected: 09/15/21 10:18

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 14:48	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/23/21 23:22	CH	XEN MID

Client Sample ID: C-354

Lab Sample ID: 880-6278-32

Date Collected: 09/15/21 10:22

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 15:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 18:09	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-354

Lab Sample ID: 880-6278-32

Date Collected: 09/15/21 10:22

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/23/21 23:27	CH	XEN MID

Client Sample ID: C-355

Lab Sample ID: 880-6278-33

Date Collected: 09/15/21 10:26

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 15:29	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 18:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/23/21 23:32	CH	XEN MID

Client Sample ID: C-356

Lab Sample ID: 880-6278-34

Date Collected: 09/15/21 10:30

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 15:50	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 18:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/23/21 23:37	CH	XEN MID

Client Sample ID: C-357

Lab Sample ID: 880-6278-35

Date Collected: 09/15/21 10:34

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8136	09/20/21 13:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 16:11	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 19:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/23/21 23:42	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-358

Lab Sample ID: 880-6278-36

Date Collected: 09/15/21 10:38

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 04:00	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 19:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/23/21 23:57	CH	XEN MID

Client Sample ID: C-359

Lab Sample ID: 880-6278-37

Date Collected: 09/15/21 10:42

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 04:21	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 20:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/24/21 00:02	CH	XEN MID

Client Sample ID: C-360

Lab Sample ID: 880-6278-38

Date Collected: 09/15/21 10:46

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 04:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 20:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/24/21 00:17	CH	XEN MID

Client Sample ID: C-361

Lab Sample ID: 880-6278-39

Date Collected: 09/15/21 10:50

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 05:02	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 20:45	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-361

Lab Sample ID: 880-6278-39

Date Collected: 09/15/21 10:50

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/24/21 00:22	CH	XEN MID

Client Sample ID: C-362

Lab Sample ID: 880-6278-40

Date Collected: 09/15/21 10:54

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 05:23	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8196	09/21/21 10:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8405	09/25/21 21:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/24/21 00:27	CH	XEN MID

Client Sample ID: C-363

Lab Sample ID: 880-6278-41

Date Collected: 09/15/21 10:58

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 14:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8500	09/28/21 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8197	09/21/21 10:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8407	09/25/21 13:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/24/21 00:32	CH	XEN MID

Client Sample ID: C-364

Lab Sample ID: 880-6278-42

Date Collected: 09/15/21 11:02

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 14:52	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8500	09/28/21 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8197	09/21/21 10:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8407	09/25/21 14:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/24/21 00:37	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-365**Lab Sample ID: 880-6278-43****Date Collected: 09/15/21 11:06****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 15:18	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8500	09/28/21 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8197	09/21/21 10:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8407	09/25/21 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/24/21 00:42	CH	XEN MID

Client Sample ID: C-366**Lab Sample ID: 880-6278-44****Date Collected: 09/15/21 11:10****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 15:45	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8500	09/28/21 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8197	09/21/21 10:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8407	09/25/21 14:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8187	09/21/21 09:32	CH	XEN MID
Soluble	Analysis	300.0		1			8334	09/24/21 00:47	CH	XEN MID

Client Sample ID: C-367**Lab Sample ID: 880-6278-45****Date Collected: 09/15/21 11:14****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 16:11	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8500	09/28/21 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8197	09/21/21 10:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8407	09/25/21 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 19:58	CH	XEN MID

Client Sample ID: C-368**Lab Sample ID: 880-6278-46****Date Collected: 09/15/21 11:18****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 16:38	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8500	09/28/21 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8197	09/21/21 10:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8407	09/25/21 15:32	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-368

Lab Sample ID: 880-6278-46

Date Collected: 09/15/21 11:18

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 20:15	CH	XEN MID

Client Sample ID: C-369

Lab Sample ID: 880-6278-47

Date Collected: 09/15/21 11:22

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 17:05	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8594	09/29/21 14:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 11:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 20:21	CH	XEN MID

Client Sample ID: C-370

Lab Sample ID: 880-6278-48

Date Collected: 09/15/21 11:26

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 17:31	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8594	09/29/21 14:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 12:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 20:26	CH	XEN MID

Client Sample ID: C-371

Lab Sample ID: 880-6278-49

Date Collected: 09/15/21 11:30

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 17:58	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8594	09/29/21 14:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 12:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 20:32	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-372

Lab Sample ID: 880-6278-50

Date Collected: 09/15/21 11:34

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 18:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8594	09/29/21 14:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 13:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 20:49	CH	XEN MID

Client Sample ID: C-373

Lab Sample ID: 880-6278-51

Date Collected: 09/15/21 11:38

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 20:11	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8594	09/29/21 14:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 13:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 20:54	CH	XEN MID

Client Sample ID: C-374

Lab Sample ID: 880-6278-52

Date Collected: 09/15/21 11:42

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 20:38	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8594	09/29/21 14:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 14:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 21:00	CH	XEN MID

Client Sample ID: C-375

Lab Sample ID: 880-6278-53

Date Collected: 09/15/21 11:46

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 21:04	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8594	09/29/21 14:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 14:39	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-375

Lab Sample ID: 880-6278-53

Date Collected: 09/15/21 11:46

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 21:05	CH	XEN MID

Client Sample ID: C-376

Lab Sample ID: 880-6278-54

Date Collected: 09/15/21 11:50

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 21:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8604	09/29/21 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 11:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 21:11	CH	XEN MID

Client Sample ID: C-377

Lab Sample ID: 880-6278-55

Date Collected: 09/15/21 11:54

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 21:58	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8604	09/29/21 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 12:38	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 21:17	CH	XEN MID

Client Sample ID: C-378

Lab Sample ID: 880-6278-56

Date Collected: 09/15/21 11:58

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 22:25	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8604	09/29/21 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 12:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 21:33	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-379

Lab Sample ID: 880-6278-57

Date Collected: 09/15/21 12:02

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 22:51	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8604	09/29/21 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 13:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 21:39	CH	XEN MID

Client Sample ID: C-380

Lab Sample ID: 880-6278-58

Date Collected: 09/15/21 12:06

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 23:17	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8604	09/29/21 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 13:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8450	09/27/21 11:46	SC	XEN MID
Soluble	Analysis	300.0		5			8457	09/27/21 16:53	CH	XEN MID

Client Sample ID: C-381

Lab Sample ID: 880-6278-59

Date Collected: 09/15/21 12:10

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/21/21 23:45	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8604	09/29/21 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 14:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8450	09/27/21 11:46	SC	XEN MID
Soluble	Analysis	300.0		5			8457	09/27/21 16:58	CH	XEN MID

Client Sample ID: C-382

Lab Sample ID: 880-6278-60

Date Collected: 09/15/21 12:14

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8137	09/20/21 13:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/22/21 00:11	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8604	09/29/21 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 14:39	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-382

Lab Sample ID: 880-6278-60

Date Collected: 09/15/21 12:14

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 22:07	CH	XEN MID

Client Sample ID: C-383

Lab Sample ID: 880-6278-61

Date Collected: 09/15/21 12:18

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8138	09/20/21 13:54	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/22/21 04:18	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 11:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 22:13	CH	XEN MID

Client Sample ID: C-384

Lab Sample ID: 880-6278-62

Date Collected: 09/15/21 12:22

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8138	09/20/21 13:54	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/22/21 04:44	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 12:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 22:18	CH	XEN MID

Client Sample ID: C-385

Lab Sample ID: 880-6278-63

Date Collected: 09/15/21 12:26

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8138	09/20/21 13:54	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/22/21 05:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 13:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 22:24	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-386**Lab Sample ID: 880-6278-64****Date Collected: 09/15/21 12:30****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8138	09/20/21 13:54	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/22/21 05:38	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 13:22	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8188	09/21/21 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			8399	09/25/21 22:29	CH	XEN MID

Client Sample ID: C-387**Lab Sample ID: 880-6278-65****Date Collected: 09/16/21 11:00****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8138	09/20/21 13:54	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/22/21 06:05	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 13:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 01:26	CH	XEN MID

Client Sample ID: C-388**Lab Sample ID: 880-6278-66****Date Collected: 09/16/21 11:03****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8138	09/20/21 13:54	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/22/21 06:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 14:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 01:41	CH	XEN MID

Client Sample ID: C-389**Lab Sample ID: 880-6278-67****Date Collected: 09/16/21 11:06****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8138	09/20/21 13:54	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/22/21 06:59	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 14:26	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-389

Lab Sample ID: 880-6278-67

Date Collected: 09/16/21 11:06

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 01:46	CH	XEN MID

Client Sample ID: C-390

Lab Sample ID: 880-6278-68

Date Collected: 09/16/21 11:09

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8138	09/20/21 13:54	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/22/21 07:26	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 14:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 01:51	CH	XEN MID

Client Sample ID: C-391

Lab Sample ID: 880-6278-69

Date Collected: 09/16/21 11:12

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8138	09/20/21 13:54	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/22/21 07:54	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 15:09	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 01:56	CH	XEN MID

Client Sample ID: C-392

Lab Sample ID: 880-6278-70

Date Collected: 09/16/21 11:15

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8138	09/20/21 13:54	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8163	09/22/21 08:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 15:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 02:11	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-393

Lab Sample ID: 880-6278-71

Date Collected: 09/16/21 11:18

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/23/21 23:31	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 16:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 02:16	CH	XEN MID

Client Sample ID: C-394

Lab Sample ID: 880-6278-72

Date Collected: 09/16/21 11:21

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/23/21 23:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 16:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 02:21	CH	XEN MID

Client Sample ID: C-395

Lab Sample ID: 880-6278-73

Date Collected: 09/16/21 11:24

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 00:13	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 16:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 02:26	CH	XEN MID

Client Sample ID: C-396

Lab Sample ID: 880-6278-74

Date Collected: 09/16/21 11:27

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 00:34	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 17:16	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-396

Lab Sample ID: 880-6278-74

Date Collected: 09/16/21 11:27

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 02:31	CH	XEN MID

Client Sample ID: C-397

Lab Sample ID: 880-6278-75

Date Collected: 09/16/21 11:30

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 00:54	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 17:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 02:36	CH	XEN MID

Client Sample ID: C-398

Lab Sample ID: 880-6278-76

Date Collected: 09/16/21 11:33

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 01:15	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 17:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 02:51	CH	XEN MID

Client Sample ID: C-399

Lab Sample ID: 880-6278-77

Date Collected: 09/16/21 11:36

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 01:36	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 18:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 02:56	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-400

Lab Sample ID: 880-6278-78

Date Collected: 09/16/21 11:39

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 01:56	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 18:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 03:10	CH	XEN MID

Client Sample ID: C-401

Lab Sample ID: 880-6278-79

Date Collected: 09/16/21 11:42

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 02:17	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 19:04	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 03:15	CH	XEN MID

Client Sample ID: C-402

Lab Sample ID: 880-6278-80

Date Collected: 09/16/21 11:45

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8251	09/22/21 09:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8299	09/24/21 02:38	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8199	09/21/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8236	09/22/21 19:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 03:20	CH	XEN MID

Client Sample ID: C-403

Lab Sample ID: 880-6278-81

Date Collected: 09/16/21 11:48

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 12:21	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 11:35	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-403

Lab Sample ID: 880-6278-81

Date Collected: 09/16/21 11:48

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 03:25	CH	XEN MID

Client Sample ID: C-404

Lab Sample ID: 880-6278-82

Date Collected: 09/16/21 11:51

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 12:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 12:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 03:30	CH	XEN MID

Client Sample ID: C-405

Lab Sample ID: 880-6278-83

Date Collected: 09/16/21 11:54

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 13:02	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 13:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 03:35	CH	XEN MID

Client Sample ID: C-406

Lab Sample ID: 880-6278-84

Date Collected: 09/16/21 11:57

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 13:22	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 13:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8189	09/21/21 09:35	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8336	09/24/21 03:40	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-407

Lab Sample ID: 880-6278-85

Date Collected: 09/16/21 12:00

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 13:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 13:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 04:20	CH	XEN MID

Client Sample ID: C-408

Lab Sample ID: 880-6278-86

Date Collected: 09/16/21 12:03

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 14:03	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 14:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 04:35	CH	XEN MID

Client Sample ID: C-409

Lab Sample ID: 880-6278-87

Date Collected: 09/16/21 12:06

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 14:23	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 14:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 04:40	CH	XEN MID

Client Sample ID: C-410

Lab Sample ID: 880-6278-88

Date Collected: 09/16/21 12:09

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 14:44	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 14:48	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-410

Lab Sample ID: 880-6278-88

Date Collected: 09/16/21 12:09

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 04:44	CH	XEN MID

Client Sample ID: C-411

Lab Sample ID: 880-6278-89

Date Collected: 09/16/21 12:12

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 15:04	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 15:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 04:49	CH	XEN MID

Client Sample ID: C-412

Lab Sample ID: 880-6278-90

Date Collected: 09/16/21 12:15

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 15:25	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 15:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 05:04	CH	XEN MID

Client Sample ID: C-413

Lab Sample ID: 880-6278-91

Date Collected: 09/16/21 12:20

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 18:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 16:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 05:09	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-414

Lab Sample ID: 880-6278-92

Date Collected: 09/16/21 12:21

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8359	09/24/21 10:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8365	09/24/21 18:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 16:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 05:14	CH	XEN MID

Client Sample ID: C-415

Lab Sample ID: 880-6278-93

Date Collected: 09/16/21 12:22

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 19:33	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 16:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 05:19	CH	XEN MID

Client Sample ID: C-416

Lab Sample ID: 880-6278-94

Date Collected: 09/16/21 12:23

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 19:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 17:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 05:24	CH	XEN MID

Client Sample ID: C-417

Lab Sample ID: 880-6278-95

Date Collected: 09/16/21 12:24

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 20:14	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 17:38	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-417

Lab Sample ID: 880-6278-95

Date Collected: 09/16/21 12:24

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 05:29	CH	XEN MID

Client Sample ID: C-418

Lab Sample ID: 880-6278-96

Date Collected: 09/16/21 12:25

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 20:34	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 17:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 05:44	CH	XEN MID

Client Sample ID: C-419

Lab Sample ID: 880-6278-97

Date Collected: 09/16/21 12:26

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 20:54	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 18:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 05:49	CH	XEN MID

Client Sample ID: C-420

Lab Sample ID: 880-6278-98

Date Collected: 09/16/21 12:27

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 21:15	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 18:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 06:04	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-421

Lab Sample ID: 880-6278-99

Date Collected: 09/16/21 12:28

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 21:35	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 19:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 06:09	CH	XEN MID

Client Sample ID: C-422

Lab Sample ID: 880-6278-100

Date Collected: 09/16/21 12:29

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8139	09/20/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8218	09/22/21 21:55	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8214	09/21/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 19:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 06:14	CH	XEN MID

Client Sample ID: C-423

Lab Sample ID: 880-6278-101

Date Collected: 09/16/21 12:30

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/23/21 19:12	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 11:40	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 06:19	CH	XEN MID

Client Sample ID: C-424

Lab Sample ID: 880-6278-102

Date Collected: 09/16/21 12:31

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/23/21 19:33	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 12:44	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-424

Lab Sample ID: 880-6278-102

Date Collected: 09/16/21 12:31

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 06:24	CH	XEN MID

Client Sample ID: C-425

Lab Sample ID: 880-6278-103

Date Collected: 09/16/21 12:32

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/23/21 19:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 13:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 06:28	CH	XEN MID

Client Sample ID: C-426

Lab Sample ID: 880-6278-104

Date Collected: 09/16/21 12:33

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/23/21 20:13	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 13:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8190	09/21/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8337	09/24/21 06:33	CH	XEN MID

Client Sample ID: C-427

Lab Sample ID: 880-6278-105

Date Collected: 09/16/21 12:34

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/23/21 20:34	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 13:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 07:13	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-428

Lab Sample ID: 880-6278-106

Date Collected: 09/16/21 12:35

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/23/21 20:54	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 14:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 07:28	CH	XEN MID

Client Sample ID: C-429

Lab Sample ID: 880-6278-107

Date Collected: 09/16/21 12:40

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/23/21 21:15	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 07:33	CH	XEN MID

Client Sample ID: C-430

Lab Sample ID: 880-6278-108

Date Collected: 09/16/21 12:45

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/23/21 21:35	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 14:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 07:38	CH	XEN MID

Client Sample ID: C-431

Lab Sample ID: 880-6278-109

Date Collected: 09/16/21 12:50

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/23/21 21:55	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 15:15	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-431**Lab Sample ID: 880-6278-109****Date Collected: 09/16/21 12:50****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 07:43	CH	XEN MID

Client Sample ID: C-432**Lab Sample ID: 880-6278-110****Date Collected: 09/16/21 12:55****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/23/21 22:16	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 15:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 07:58	CH	XEN MID

Client Sample ID: C-433**Lab Sample ID: 880-6278-111****Date Collected: 09/16/21 13:00****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/24/21 00:05	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 16:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 08:03	CH	XEN MID

Client Sample ID: C-434**Lab Sample ID: 880-6278-112****Date Collected: 09/16/21 13:05****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/24/21 00:25	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 16:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 08:08	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-435

Lab Sample ID: 880-6278-113

Date Collected: 09/16/21 13:10

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/24/21 00:46	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 17:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 08:13	CH	XEN MID

Client Sample ID: C-436

Lab Sample ID: 880-6278-114

Date Collected: 09/16/21 13:15

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/24/21 01:06	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 08:17	CH	XEN MID

Client Sample ID: C-437

Lab Sample ID: 880-6278-115

Date Collected: 09/16/21 13:20

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/24/21 01:27	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 17:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 08:22	CH	XEN MID

Client Sample ID: C-438

Lab Sample ID: 880-6278-116

Date Collected: 09/16/21 13:25

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/24/21 01:47	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 18:08	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-438

Lab Sample ID: 880-6278-116

Date Collected: 09/16/21 13:25

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 08:37	CH	XEN MID

Client Sample ID: C-439

Lab Sample ID: 880-6278-117

Date Collected: 09/16/21 13:30

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/24/21 02:07	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 18:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 08:42	CH	XEN MID

Client Sample ID: C-440

Lab Sample ID: 880-6278-118

Date Collected: 09/16/21 13:35

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/24/21 02:28	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 08:57	CH	XEN MID

Client Sample ID: C-441

Lab Sample ID: 880-6278-119

Date Collected: 09/16/21 13:40

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/24/21 02:48	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 09:02	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-442

Lab Sample ID: 880-6278-120

Date Collected: 09/16/21 13:45

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8141	09/20/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8326	09/24/21 03:09	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8217	09/21/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8294	09/23/21 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 09:07	CH	XEN MID

Client Sample ID: C-443

Lab Sample ID: 880-6278-121

Date Collected: 09/16/21 13:50

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 19:37	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 11:40	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 09:12	CH	XEN MID

Client Sample ID: C-444

Lab Sample ID: 880-6278-122

Date Collected: 09/16/21 13:55

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 19:58	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 12:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 09:17	CH	XEN MID

Client Sample ID: C-445

Lab Sample ID: 880-6278-123

Date Collected: 09/16/21 14:00

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 20:19	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 13:05	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-445

Lab Sample ID: 880-6278-123

Date Collected: 09/16/21 14:00

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 09:22	CH	XEN MID

Client Sample ID: C-446

Lab Sample ID: 880-6278-124

Date Collected: 09/16/21 14:05

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 20:39	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 13:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8191	09/21/21 09:40	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8366	09/24/21 09:27	CH	XEN MID

Client Sample ID: C-447

Lab Sample ID: 880-6278-125

Date Collected: 09/16/21 14:10

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 21:00	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 13:49	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 09:40	CH	XEN MID

Client Sample ID: C-448

Lab Sample ID: 880-6278-126

Date Collected: 09/16/21 14:15

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 21:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 14:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 10:01	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-449

Lab Sample ID: 880-6278-127

Date Collected: 09/16/21 14:20

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 21:42	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 10:07	CH	XEN MID

Client Sample ID: C-450

Lab Sample ID: 880-6278-128

Date Collected: 09/16/21 14:25

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 22:03	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 14:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 10:12	CH	XEN MID

Client Sample ID: C-451

Lab Sample ID: 880-6278-129

Date Collected: 09/16/21 14:30

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 22:23	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 15:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 10:18	CH	XEN MID

Client Sample ID: C-452

Lab Sample ID: 880-6278-130

Date Collected: 09/16/21 14:35

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 22:44	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 15:37	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-452**Lab Sample ID: 880-6278-130****Date Collected: 09/16/21 14:35****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 10:35	CH	XEN MID

Client Sample ID: C-453**Lab Sample ID: 880-6278-131****Date Collected: 09/16/21 14:40****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/23/21 00:06	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 16:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 10:40	CH	XEN MID

Client Sample ID: C-454**Lab Sample ID: 880-6278-132****Date Collected: 09/16/21 14:45****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/23/21 00:27	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 16:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 10:46	CH	XEN MID

Client Sample ID: C-455**Lab Sample ID: 880-6278-133****Date Collected: 09/16/21 14:50****Matrix: Solid****Date Received: 09/20/21 12:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/23/21 00:47	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 17:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 10:52	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-456

Lab Sample ID: 880-6278-134

Date Collected: 09/16/21 14:55

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/23/21 01:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 10:57	CH	XEN MID

Client Sample ID: C-457

Lab Sample ID: 880-6278-135

Date Collected: 09/16/21 15:00

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/23/21 01:28	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 17:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 11:03	CH	XEN MID

Client Sample ID: C-458

Lab Sample ID: 880-6278-136

Date Collected: 09/16/21 15:05

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/23/21 01:49	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 18:08	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 11:20	CH	XEN MID

Client Sample ID: C-459

Lab Sample ID: 880-6278-137

Date Collected: 09/16/21 15:10

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/23/21 02:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 18:29	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-459

Lab Sample ID: 880-6278-137

Date Collected: 09/16/21 15:10

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 11:25	CH	XEN MID

Client Sample ID: C-460

Lab Sample ID: 880-6278-138

Date Collected: 09/16/21 15:15

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/23/21 02:30	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 11:42	CH	XEN MID

Client Sample ID: C-461

Lab Sample ID: 880-6278-139

Date Collected: 09/16/21 15:20

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/23/21 02:51	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 11:48	CH	XEN MID

Client Sample ID: C-462

Lab Sample ID: 880-6278-140

Date Collected: 09/16/21 15:25

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8241	09/22/21 08:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/23/21 03:11	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8240	09/22/21 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8296	09/23/21 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 11:53	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-463

Lab Sample ID: 880-6278-141

Date Collected: 09/16/21 15:30

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8102	09/21/21 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/21/21 18:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 21:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 11:59	CH	XEN MID

Client Sample ID: C-464

Lab Sample ID: 880-6278-142

Date Collected: 09/16/21 15:35

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8102	09/21/21 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/21/21 18:44	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 22:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 12:04	CH	XEN MID

Client Sample ID: C-465

Lab Sample ID: 880-6278-143

Date Collected: 09/16/21 15:40

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8102	09/21/21 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/21/21 19:05	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 22:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 12:10	CH	XEN MID

Client Sample ID: C-466

Lab Sample ID: 880-6278-144

Date Collected: 09/16/21 15:45

Matrix: Solid

Date Received: 09/20/21 12:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8102	09/21/21 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/21/21 19:25	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8612	09/29/21 16:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 22:59	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Client Sample ID: C-466
Date Collected: 09/16/21 15:45
Date Received: 09/20/21 12:58

Lab Sample ID: 880-6278-144
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8192	09/21/21 09:49	CH	XEN MID
Soluble	Analysis	300.0		1	5 mL	5 mL	8367	09/24/21 12:16	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8021B	5035	Solid	Total BTEX

Eurofins Xenco, Midland

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6278-1	C-323	Solid	09/14/21 11:05	09/20/21 12:58
880-6278-2	C-324	Solid	09/14/21 11:10	09/20/21 12:58
880-6278-3	C-325	Solid	09/14/21 11:15	09/20/21 12:58
880-6278-4	C-326	Solid	09/14/21 11:20	09/20/21 12:58
880-6278-5	C-327	Solid	09/14/21 11:25	09/20/21 12:58
880-6278-6	C-328	Solid	09/14/21 11:27	09/20/21 12:58
880-6278-7	C-329	Solid	09/14/21 11:32	09/20/21 12:58
880-6278-8	C-330	Solid	09/14/21 11:36	09/20/21 12:58
880-6278-9	C-331	Solid	09/14/21 11:40	09/20/21 12:58
880-6278-10	C-332	Solid	09/14/21 13:05	09/20/21 12:58
880-6278-11	C-333	Solid	09/14/21 13:10	09/20/21 12:58
880-6278-12	C-334	Solid	09/14/21 13:15	09/20/21 12:58
880-6278-13	C-335	Solid	09/14/21 13:20	09/20/21 12:58
880-6278-14	C-336	Solid	09/14/21 13:25	09/20/21 12:58
880-6278-15	C-337	Solid	09/14/21 13:30	09/20/21 12:58
880-6278-16	C-338	Solid	09/14/21 15:24	09/20/21 12:58
880-6278-17	C-339	Solid	09/14/21 15:36	09/20/21 12:58
880-6278-18	C-340	Solid	09/14/21 15:48	09/20/21 12:58
880-6278-19	C-341	Solid	09/15/21 09:30	09/20/21 12:58
880-6278-20	C-342	Solid	09/15/21 09:34	09/20/21 12:58
880-6278-21	C-343	Solid	09/15/21 09:38	09/20/21 12:58
880-6278-22	C-344	Solid	09/15/21 09:42	09/20/21 12:58
880-6278-23	C-345	Solid	09/15/21 09:46	09/20/21 12:58
880-6278-24	C-346	Solid	09/15/21 09:50	09/20/21 12:58
880-6278-25	C-347	Solid	09/15/21 09:54	09/20/21 12:58
880-6278-26	C-348	Solid	09/15/21 09:58	09/20/21 12:58
880-6278-27	C-349	Solid	09/15/21 10:02	09/20/21 12:58
880-6278-28	C-350	Solid	09/15/21 10:06	09/20/21 12:58
880-6278-29	C-351	Solid	09/15/21 10:10	09/20/21 12:58
880-6278-30	C-352	Solid	09/15/21 10:14	09/20/21 12:58
880-6278-31	C-353	Solid	09/15/21 10:18	09/20/21 12:58
880-6278-32	C-354	Solid	09/15/21 10:22	09/20/21 12:58
880-6278-33	C-355	Solid	09/15/21 10:26	09/20/21 12:58
880-6278-34	C-356	Solid	09/15/21 10:30	09/20/21 12:58
880-6278-35	C-357	Solid	09/15/21 10:34	09/20/21 12:58
880-6278-36	C-358	Solid	09/15/21 10:38	09/20/21 12:58
880-6278-37	C-359	Solid	09/15/21 10:42	09/20/21 12:58
880-6278-38	C-360	Solid	09/15/21 10:46	09/20/21 12:58
880-6278-39	C-361	Solid	09/15/21 10:50	09/20/21 12:58
880-6278-40	C-362	Solid	09/15/21 10:54	09/20/21 12:58
880-6278-41	C-363	Solid	09/15/21 10:58	09/20/21 12:58
880-6278-42	C-364	Solid	09/15/21 11:02	09/20/21 12:58
880-6278-43	C-365	Solid	09/15/21 11:06	09/20/21 12:58
880-6278-44	C-366	Solid	09/15/21 11:10	09/20/21 12:58
880-6278-45	C-367	Solid	09/15/21 11:14	09/20/21 12:58
880-6278-46	C-368	Solid	09/15/21 11:18	09/20/21 12:58
880-6278-47	C-369	Solid	09/15/21 11:22	09/20/21 12:58
880-6278-48	C-370	Solid	09/15/21 11:26	09/20/21 12:58
880-6278-49	C-371	Solid	09/15/21 11:30	09/20/21 12:58
880-6278-50	C-372	Solid	09/15/21 11:34	09/20/21 12:58
880-6278-51	C-373	Solid	09/15/21 11:38	09/20/21 12:58
880-6278-52	C-374	Solid	09/15/21 11:42	09/20/21 12:58
880-6278-53	C-375	Solid	09/15/21 11:46	09/20/21 12:58
880-6278-54	C-376	Solid	09/15/21 11:50	09/20/21 12:58
880-6278-55	C-377	Solid	09/15/21 11:54	09/20/21 12:58

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6278-56	C-378	Solid	09/15/21 11:58	09/20/21 12:58
880-6278-57	C-379	Solid	09/15/21 12:02	09/20/21 12:58
880-6278-58	C-380	Solid	09/15/21 12:06	09/20/21 12:58
880-6278-59	C-381	Solid	09/15/21 12:10	09/20/21 12:58
880-6278-60	C-382	Solid	09/15/21 12:14	09/20/21 12:58
880-6278-61	C-383	Solid	09/15/21 12:18	09/20/21 12:58
880-6278-62	C-384	Solid	09/15/21 12:22	09/20/21 12:58
880-6278-63	C-385	Solid	09/15/21 12:26	09/20/21 12:58
880-6278-64	C-386	Solid	09/15/21 12:30	09/20/21 12:58
880-6278-65	C-387	Solid	09/16/21 11:00	09/20/21 12:58
880-6278-66	C-388	Solid	09/16/21 11:03	09/20/21 12:58
880-6278-67	C-389	Solid	09/16/21 11:06	09/20/21 12:58
880-6278-68	C-390	Solid	09/16/21 11:09	09/20/21 12:58
880-6278-69	C-391	Solid	09/16/21 11:12	09/20/21 12:58
880-6278-70	C-392	Solid	09/16/21 11:15	09/20/21 12:58
880-6278-71	C-393	Solid	09/16/21 11:18	09/20/21 12:58
880-6278-72	C-394	Solid	09/16/21 11:21	09/20/21 12:58
880-6278-73	C-395	Solid	09/16/21 11:24	09/20/21 12:58
880-6278-74	C-396	Solid	09/16/21 11:27	09/20/21 12:58
880-6278-75	C-397	Solid	09/16/21 11:30	09/20/21 12:58
880-6278-76	C-398	Solid	09/16/21 11:33	09/20/21 12:58
880-6278-77	C-399	Solid	09/16/21 11:36	09/20/21 12:58
880-6278-78	C-400	Solid	09/16/21 11:39	09/20/21 12:58
880-6278-79	C-401	Solid	09/16/21 11:42	09/20/21 12:58
880-6278-80	C-402	Solid	09/16/21 11:45	09/20/21 12:58
880-6278-81	C-403	Solid	09/16/21 11:48	09/20/21 12:58
880-6278-82	C-404	Solid	09/16/21 11:51	09/20/21 12:58
880-6278-83	C-405	Solid	09/16/21 11:54	09/20/21 12:58
880-6278-84	C-406	Solid	09/16/21 11:57	09/20/21 12:58
880-6278-85	C-407	Solid	09/16/21 12:00	09/20/21 12:58
880-6278-86	C-408	Solid	09/16/21 12:03	09/20/21 12:58
880-6278-87	C-409	Solid	09/16/21 12:06	09/20/21 12:58
880-6278-88	C-410	Solid	09/16/21 12:09	09/20/21 12:58
880-6278-89	C-411	Solid	09/16/21 12:12	09/20/21 12:58
880-6278-90	C-412	Solid	09/16/21 12:15	09/20/21 12:58
880-6278-91	C-413	Solid	09/16/21 12:20	09/20/21 12:58
880-6278-92	C-414	Solid	09/16/21 12:21	09/20/21 12:58
880-6278-93	C-415	Solid	09/16/21 12:22	09/20/21 12:58
880-6278-94	C-416	Solid	09/16/21 12:23	09/20/21 12:58
880-6278-95	C-417	Solid	09/16/21 12:24	09/20/21 12:58
880-6278-96	C-418	Solid	09/16/21 12:25	09/20/21 12:58
880-6278-97	C-419	Solid	09/16/21 12:26	09/20/21 12:58
880-6278-98	C-420	Solid	09/16/21 12:27	09/20/21 12:58
880-6278-99	C-421	Solid	09/16/21 12:28	09/20/21 12:58
880-6278-100	C-422	Solid	09/16/21 12:29	09/20/21 12:58
880-6278-101	C-423	Solid	09/16/21 12:30	09/20/21 12:58
880-6278-102	C-424	Solid	09/16/21 12:31	09/20/21 12:58
880-6278-103	C-425	Solid	09/16/21 12:32	09/20/21 12:58
880-6278-104	C-426	Solid	09/16/21 12:33	09/20/21 12:58
880-6278-105	C-427	Solid	09/16/21 12:34	09/20/21 12:58
880-6278-106	C-428	Solid	09/16/21 12:35	09/20/21 12:58
880-6278-107	C-429	Solid	09/16/21 12:40	09/20/21 12:58
880-6278-108	C-430	Solid	09/16/21 12:45	09/20/21 12:58
880-6278-109	C-431	Solid	09/16/21 12:50	09/20/21 12:58
880-6278-110	C-432	Solid	09/16/21 12:55	09/20/21 12:58

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6278-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6278-111	C-433	Solid	09/16/21 13:00	09/20/21 12:58
880-6278-112	C-434	Solid	09/16/21 13:05	09/20/21 12:58
880-6278-113	C-435	Solid	09/16/21 13:10	09/20/21 12:58
880-6278-114	C-436	Solid	09/16/21 13:15	09/20/21 12:58
880-6278-115	C-437	Solid	09/16/21 13:20	09/20/21 12:58
880-6278-116	C-438	Solid	09/16/21 13:25	09/20/21 12:58
880-6278-117	C-439	Solid	09/16/21 13:30	09/20/21 12:58
880-6278-118	C-440	Solid	09/16/21 13:35	09/20/21 12:58
880-6278-119	C-441	Solid	09/16/21 13:40	09/20/21 12:58
880-6278-120	C-442	Solid	09/16/21 13:45	09/20/21 12:58
880-6278-121	C-443	Solid	09/16/21 13:50	09/20/21 12:58
880-6278-122	C-444	Solid	09/16/21 13:55	09/20/21 12:58
880-6278-123	C-445	Solid	09/16/21 14:00	09/20/21 12:58
880-6278-124	C-446	Solid	09/16/21 14:05	09/20/21 12:58
880-6278-125	C-447	Solid	09/16/21 14:10	09/20/21 12:58
880-6278-126	C-448	Solid	09/16/21 14:15	09/20/21 12:58
880-6278-127	C-449	Solid	09/16/21 14:20	09/20/21 12:58
880-6278-128	C-450	Solid	09/16/21 14:25	09/20/21 12:58
880-6278-129	C-451	Solid	09/16/21 14:30	09/20/21 12:58
880-6278-130	C-452	Solid	09/16/21 14:35	09/20/21 12:58
880-6278-131	C-453	Solid	09/16/21 14:40	09/20/21 12:58
880-6278-132	C-454	Solid	09/16/21 14:45	09/20/21 12:58
880-6278-133	C-455	Solid	09/16/21 14:50	09/20/21 12:58
880-6278-134	C-456	Solid	09/16/21 14:55	09/20/21 12:58
880-6278-135	C-457	Solid	09/16/21 15:00	09/20/21 12:58
880-6278-136	C-458	Solid	09/16/21 15:05	09/20/21 12:58
880-6278-137	C-459	Solid	09/16/21 15:10	09/20/21 12:58
880-6278-138	C-460	Solid	09/16/21 15:15	09/20/21 12:58
880-6278-139	C-461	Solid	09/16/21 15:20	09/20/21 12:58
880-6278-140	C-462	Solid	09/16/21 15:25	09/20/21 12:58
880-6278-141	C-463	Solid	09/16/21 15:30	09/20/21 12:58
880-6278-142	C-464	Solid	09/16/21 15:35	09/20/21 12:58
880-6278-143	C-465	Solid	09/16/21 15:40	09/20/21 12:58
880-6278-144	C-466	Solid	09/16/21 15:45	09/20/21 12:58

9/29/2021

Varson & Associates, Inc.
Environmental Consultants

507 N Warrenfield Ste 202
Midland TX 79701
432-687 0901

Data Reported to

DATE 9/20/2021 PAGE 2 OF 10
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME Palmie Ast
LAI PROJECT # 21-0105-02 COLLECTOR TP

No. 2190
CHAIN-OF-CUSTODY

TIME ZONE Time zone/State	Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION					ANALYSES	FIELD NOTES
							HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED		
TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER											
C-338			9/14/21	1524	S	1				X		X X X	
C-339				1536									
C-340			9/15/21	1548									
C-341				0930									
C-342				0934									
C-343				0939									
C-344				0942									
C-345				0946									
C-346				0950									
C-347				0954									
C-348				0958									
C-349				1002									
C-350				1006									
C-351				1010									
C-352				1014									
TOTAL	15												

RELINQUISHED BY (Signature) <i>[Signature]</i>	DATE/TIME 9/20/2021 0848	RECEIVED BY (Signature) <i>[Signature]</i>	DATE/TIME 9/20/2021 0848
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
LABORATORY	XENCO		

TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐	LABORATORY USE ONLY: RECEIVING TEMP _____ THERM# _____ CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # _____ ☐ HAND DELIVERED
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[illegible]

Varson & Associates, Inc.

Environmental Consultants



880-6278 Chain of Custody

Midland TX 79701

432-687 0901

Data Reported to

ITE 9/30/2021 PAGE 1 OF 10

PROJECT LOCATION OR NAME Palmview A-5T LAB WORK ORDER#

LAI PROJECT # 21-0105-02 COLLECTOR TP

No. 2189

CHAIN-OF-CUSTODY

TIME ZONE Time zone/State	TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES			
									HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			UNPRESERVED		
C-323					9/14/21	1105	S	1			X		X	X	X		
C-324						1110											
C-325						1115											
C-326						1120											
C-327						1125											
C-328						1127											
C-329						1132											
C-330						1136											
C-331						1140											
C-332						1305											
C-333						1310											
C-334						1315											
C-335						1320											
C-336						1325											
C-337						1330											
TOTAL	15																

RELINQUISHED BY (Signature) [Signature] DATE/TIME 9/30/2021 15:58 RECEIVED BY (Signature) [Signature]

RELINQUISHED BY (Signature) [Signature] DATE/TIME 9/30/2021 15:58 RECEIVED BY (Signature) [Signature]

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LABORATORY YENCO

TURN AROUND TIME
NORMAL ☒ 1 DAY ☐
2 DAY ☐ OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 4.4/4.9 RM# 108
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Arson & Associates, Inc.
Environmental Consultants

507 N Warrenfield Ste 202
Midland TX 79701
432 687 0901

Data Reported to

DATE 9/20/2021 PAGE 2 OF 10
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME Palmview Ast
LAI PROJECT # 21-0105-02 COLLECTOR TP

CHAIN-OF-CUSTODY

No. 2190

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION					ANALYSES	FIELD NOTES	
						HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE	UNPRESERVED			
C-338		9/14/21	1524	S	1				X		X	X	
C-339			1536										
C-340		9/15/21	1548										
C-341			0930										
C-342			0934										
C-343			0934										
C-344			0942										
C-345			0946										
C-346			0950										
C-347			0954										
C-348			0954										
C-349			1002										
C-350			1006										
C-351			1010										
C-352			1014										
TOTAL	15												

RELINQUISHED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/20/2021 084</u>	RECEIVED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/20/2021 084</u>
RELINQUISHED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/20/2021 084</u>	RECEIVED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/20/2021 084</u>
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LABORATORY <u>Xenop</u>			

Arson & Associates, Inc.
Environmental Consultants

507 N Warrenfield Ste 202
Midland TX 79701
432 687 0901

Data Reported to

DATE 9/20/2021 PAGE 3 OF 10
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME Palmer Ast
LAI PROJECT # 21-0105-02 COLLECTOR TP

No. 2191
CHAIN-OF-CUSTODY

TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		PRESERVATION		ANALYSES		FIELD NOTES	
TIME ZONE	Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED
WST / M	C-353		9/15/21	1018	S	1					
	C-354			1022							
	C-355			1026							
	C-356			1030							
	C-357			1034							
	C-358			1038							
	C-359			1042							
	C-360			1046							
	C-361			1050							
	C-362			1054							
	C-363			1058							
	C-364			1102							
	C-365			1106							
	C-366			1110							
	C-367			1114							
TOTAL 15											
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME		TURN AROUND TIME		LABORATORY USE ONLY:	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME		NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐		RECEIVING TEMP _____ THERM# _____	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME		CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED		CARRIER BILL # _____	
LABORATORY		XERO						☐ HAND DELIVERED			

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14Loc: 880
6278

No. 2193

Marson & Associates, Inc.
Environmental Consultants507 N. Marie,
Midland TX 79701
432 687 0901

Data Reported to:

DATE 9/20/2021 PAGE 4 OF 12
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME Palmae A57
LAI PROJECT # 21-0105-02 COLLECTOR TP

CHAIN-OF-CUSTODY

TIME ZONE Time zone/State	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES
								HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE		
<u>MST/UTM</u>													
C-368				9/15/21	1118	S	1			X		X	
C-369					1122							X	
C-370					1126							X	
C-371					1130							X	
C-372					1134							X	
C-373					1138							X	
C-374					1142							X	
C-375					1146							X	
C-376					1150							X	
C-377					1154							X	
C-378					1158							X	
C-379					1202							X	
C-380					1206							X	
C-381					1210							X	
C-382					1214							X	
TOTAL 15													

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
<u>[Signature]</u>	<u>9/20/2021 1258</u>	<u>[Signature]</u>	<u>9/20/2021 1258</u>
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
<u>[Signature]</u>		<u>[Signature]</u>	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
<u>[Signature]</u>		<u>[Signature]</u>	
LABORATORY	<u>X4660</u>		

TURN AROUND TIME	LABORATORY USE ONLY:
NORMAL ☒	RECEIVING TEMP _____ THERM# _____
1 DAY ☐	CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
2 DAY ☐	CARRIER BILL # _____
OTHER ☐	☐ HAND DELIVERED

[illegible]

[illegible]

[illegible]

[illegible]

Marson & Associates, Inc.
Environmental Consultants

507 N Marensfeld Ste 202
Midland TX 79701
432-687-0901

Data Reported to

DATE 9/20/2021 PAGE 9 OF 10
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME Palmer A-1
LAI PROJECT # 21-0105-02 COLLECTOR TP

CHAIN-OF-CUSTODY

No. 2198

TIME ZONE Time zone/State	TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	TURN AROUND TIME	LABORATORY USE ONLY:
									HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			
MST/NTM															
0-443					9/16/21	1350	S	1				X			
0-444						1355							X		
0-445						1400							X		
0-446						1405							X		
0-447						1410							X		
0-448						1415							X		
0-449						1420							X		
0-450						1425							X		
0-451						1430							X		
0-452						1435							X		
0-453						1440							X		
0-454						1445							X		
0-455						1450							X		
0-456						1455							X		
0-457						1500							X		
TOTAL 15															
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		TURN AROUND TIME		LABORATORY USE ONLY:			
<i>[Signature]</i>		9/20/21 1238		<i>[Signature]</i>		9/20/21 1238		<i>[Signature]</i>		NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐		RECEIVING TEMP _____ THERM# _____ CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # _____ ☐ HAND DELIVERED			
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		TURN AROUND TIME		LABORATORY USE ONLY:			
LABORATORY		XERO													

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-6278-1

SDG Number: 21-0105-02

Login Number: 6278

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-6474-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio Ast

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/4/2021 4:14:45 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
TotalAccess

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Laboratory Job ID: 880-6474-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Eurofins Xenco, Midland

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Job ID: 880-6474-1**Laboratory: Eurofins Xenco, Midland****Narrative****Job Narrative
880-6474-1****Receipt**

The samples were received on 9/24/2021 4:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8519 and analytical batch 880-8644 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-497 (880-6474-31) and (MB 880-8519/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-8519 and analytical batch 880-8644 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8526 and analytical batch 880-8713 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-590 (880-6474-123), C-592 (880-6474-125), C-593 (880-6474-126), C-594 (880-6474-127), C-595 (880-6474-128), C-597 (880-6474-130), C-598 (880-6474-131), C-599 (880-6474-132), C-600 (880-6474-133), C-601 (880-6474-134), C-602 (880-6474-135), C-604 (880-6474-137), C-605 (880-6474-138), C-606 (880-6474-139), (880-6474-A-121-E MS) and (880-6474-A-121-F MSD). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-613 (880-6474-147) and C-620 (880-6474-154). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8520 and 880-8523 and analytical batch 880-8722 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-510 (880-6474-44), C-517 (880-6474-51), C-572 (880-6474-106), C-578 (880-6474-111) and C-579 (880-6474-112). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-520 (880-6474-54), C-524 (880-6474-58), C-525 (880-6474-59), C-569 (880-6474-103) and C-571 (880-6474-105). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8501 and analytical batch 880-8492 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-6474-A-101-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8503 and analytical batch 880-8494 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Job ID: 880-6474-1 (Continued)

Laboratory: Eurofins Xenco, Midland (Continued)

laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-589 (880-6474-122), C-590 (880-6474-123), C-592 (880-6474-125), C-593 (880-6474-126), C-594 (880-6474-127), C-597 (880-6474-130), C-598 (880-6474-131), C-602 (880-6474-135), C-603 (880-6474-136) and C-604 (880-6474-137). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8509 and analytical batch 880-8565 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-467

Lab Sample ID: 880-6474-1

Date Collected: 09/21/21 11:16

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 00:03	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 00:03	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 00:03	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:11	09/30/21 00:03	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 00:03	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:11	09/30/21 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/28/21 13:11	09/30/21 00:03	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/28/21 13:11	09/30/21 00:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 11:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 11:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130	09/27/21 09:22	09/27/21 11:53	1
o-Terphenyl (Surr)	121		70 - 130	09/27/21 09:22	09/27/21 11:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		4.95	mg/Kg			09/29/21 22:58	1

Client Sample ID: C-468

Lab Sample ID: 880-6474-2

Date Collected: 09/21/21 11:19

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 00:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 00:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 00:23	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:11	09/30/21 00:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 00:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:11	09/30/21 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/28/21 13:11	09/30/21 00:23	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/28/21 13:11	09/30/21 00:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-468

Lab Sample ID: 880-6474-2

Date Collected: 09/21/21 11:19

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 12:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 12:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 12:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130			09/27/21 09:22	09/27/21 12:58	1
o-Terphenyl (Surr)	119		70 - 130			09/27/21 09:22	09/27/21 12:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	400		5.04	mg/Kg			09/29/21 23:15	1

Client Sample ID: C-469

Lab Sample ID: 880-6474-3

Date Collected: 09/21/21 11:21

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 00:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 00:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 00:44	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:11	09/30/21 00:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 00:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:11	09/30/21 00:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			09/28/21 13:11	09/30/21 00:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/28/21 13:11	09/30/21 00:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 13:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 13:20	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-469

Lab Sample ID: 880-6474-3

Date Collected: 09/21/21 11:21

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 13:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			09/27/21 09:22	09/27/21 13:20	1
o-Terphenyl (Surr)	103		70 - 130			09/27/21 09:22	09/27/21 13:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	473		4.97	mg/Kg			09/29/21 23:21	1

Client Sample ID: C-470

Lab Sample ID: 880-6474-4

Date Collected: 09/21/21 11:24

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 01:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 01:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 01:04	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:11	09/30/21 01:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 01:04	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:11	09/30/21 01:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			09/28/21 13:11	09/30/21 01:04	1
1,4-Difluorobenzene (Surr)	70		70 - 130			09/28/21 13:11	09/30/21 01:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 13:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 13:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 13:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/27/21 09:22	09/27/21 13:42	1
o-Terphenyl (Surr)	98		70 - 130			09/27/21 09:22	09/27/21 13:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1440		4.99	mg/Kg			09/29/21 23:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-471

Lab Sample ID: 880-6474-5

Date Collected: 09/21/21 11:27

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 01:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 01:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 01:25	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/28/21 13:11	09/30/21 01:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 01:25	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/28/21 13:11	09/30/21 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	09/28/21 13:11	09/30/21 01:25	1
1,4-Difluorobenzene (Surr)	72		70 - 130	09/28/21 13:11	09/30/21 01:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 14:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 14:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	09/27/21 09:22	09/27/21 14:04	1
o-Terphenyl (Surr)	104		70 - 130	09/27/21 09:22	09/27/21 14:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	655		5.00	mg/Kg			09/29/21 23:32	1

Client Sample ID: C-472

Lab Sample ID: 880-6474-6

Date Collected: 09/21/21 11:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 01:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 01:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 01:45	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:11	09/30/21 01:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 01:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:11	09/30/21 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/28/21 13:11	09/30/21 01:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/28/21 13:11	09/30/21 01:45	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-472

Lab Sample ID: 880-6474-6

Date Collected: 09/21/21 11:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 14:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 14:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/27/21 09:22	09/27/21 14:26	1
o-Terphenyl (Surr)	98		70 - 130			09/27/21 09:22	09/27/21 14:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.5		4.98	mg/Kg			09/29/21 23:49	1

Client Sample ID: C-473

Lab Sample ID: 880-6474-7

Date Collected: 09/21/21 13:00

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 02:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 02:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 02:06	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:11	09/30/21 02:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 02:06	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:11	09/30/21 02:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			09/28/21 13:11	09/30/21 02:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130			09/28/21 13:11	09/30/21 02:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 14:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 14:47	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-473

Lab Sample ID: 880-6474-7

Date Collected: 09/21/21 13:00

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/27/21 09:22	09/27/21 14:47	1
o-Terphenyl (Surr)	104		70 - 130			09/27/21 09:22	09/27/21 14:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2860		25.1	mg/Kg			09/29/21 23:55	5

Client Sample ID: C-474

Lab Sample ID: 880-6474-8

Date Collected: 09/21/21 13:05

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00375		0.00201	mg/Kg		09/28/21 13:11	09/30/21 02:27	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:11	09/30/21 02:27	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:11	09/30/21 02:27	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:11	09/30/21 02:27	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:11	09/30/21 02:27	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:11	09/30/21 02:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			09/28/21 13:11	09/30/21 02:27	1
1,4-Difluorobenzene (Surr)	73		70 - 130			09/28/21 13:11	09/30/21 02:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00375		0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 15:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 15:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 15:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			09/27/21 09:22	09/27/21 15:09	1
o-Terphenyl (Surr)	93		70 - 130			09/27/21 09:22	09/27/21 15:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	289		4.97	mg/Kg			09/30/21 00:00	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-475

Lab Sample ID: 880-6474-9

Date Collected: 09/21/21 13:10

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00481		0.00200	mg/Kg		09/28/21 13:11	09/30/21 02:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 02:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 02:47	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:11	09/30/21 02:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 02:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:11	09/30/21 02:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	09/28/21 13:11	09/30/21 02:47	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/28/21 13:11	09/30/21 02:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00481		0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 15:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 15:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	09/27/21 09:22	09/27/21 15:31	1
o-Terphenyl (Surr)	98		70 - 130	09/27/21 09:22	09/27/21 15:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.6		4.95	mg/Kg			09/30/21 00:06	1

Client Sample ID: C-476

Lab Sample ID: 880-6474-10

Date Collected: 09/21/21 13:15

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 03:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 03:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 03:08	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:11	09/30/21 03:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 03:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:11	09/30/21 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/28/21 13:11	09/30/21 03:08	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/28/21 13:11	09/30/21 03:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-476

Lab Sample ID: 880-6474-10

Date Collected: 09/21/21 13:15

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 15:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 15:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 15:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			09/27/21 09:22	09/27/21 15:53	1
o-Terphenyl (Surr)	110		70 - 130			09/27/21 09:22	09/27/21 15:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.4		5.00	mg/Kg			09/30/21 00:11	1

Client Sample ID: C-477

Lab Sample ID: 880-6474-11

Date Collected: 09/21/21 13:20

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 04:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 04:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 04:30	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:11	09/30/21 04:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 04:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:11	09/30/21 04:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			09/28/21 13:11	09/30/21 04:30	1
1,4-Difluorobenzene (Surr)	81		70 - 130			09/28/21 13:11	09/30/21 04:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 16:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 16:37	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-477

Lab Sample ID: 880-6474-11

Date Collected: 09/21/21 13:20

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130			09/27/21 09:22	09/27/21 16:37	1
o-Terphenyl (Surr)	116		70 - 130			09/27/21 09:22	09/27/21 16:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.0	F1	5.05	mg/Kg			09/30/21 00:17	1

Client Sample ID: C-478

Lab Sample ID: 880-6474-12

Date Collected: 09/21/21 13:25

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:11	09/30/21 04:50	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:11	09/30/21 04:50	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:11	09/30/21 04:50	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/28/21 13:11	09/30/21 04:50	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:11	09/30/21 04:50	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/28/21 13:11	09/30/21 04:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			09/28/21 13:11	09/30/21 04:50	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/28/21 13:11	09/30/21 04:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 16:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 16:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			09/27/21 09:22	09/27/21 16:58	1
o-Terphenyl (Surr)	114		70 - 130			09/27/21 09:22	09/27/21 16:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.3		4.98	mg/Kg			09/30/21 00:34	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-479

Lab Sample ID: 880-6474-13

Date Collected: 09/21/21 13:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 05:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 05:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 05:11	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:11	09/30/21 05:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 05:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:11	09/30/21 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/28/21 13:11	09/30/21 05:11	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/28/21 13:11	09/30/21 05:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 09:22	09/27/21 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	09/27/21 09:22	09/27/21 17:20	1
o-Terphenyl (Surr)	92		70 - 130	09/27/21 09:22	09/27/21 17:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.2		4.99	mg/Kg			09/30/21 00:39	1

Client Sample ID: C-480

Lab Sample ID: 880-6474-14

Date Collected: 09/21/21 13:35

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 05:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 05:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 05:31	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:11	09/30/21 05:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 05:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:11	09/30/21 05:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/28/21 13:11	09/30/21 05:31	1
1,4-Difluorobenzene (Surr)	74		70 - 130	09/28/21 13:11	09/30/21 05:31	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-480

Lab Sample ID: 880-6474-14

Date Collected: 09/21/21 13:35

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 17:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 17:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 17:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/27/21 09:22	09/27/21 17:42	1
o-Terphenyl (Surr)	97		70 - 130			09/27/21 09:22	09/27/21 17:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.6		5.00	mg/Kg			10/01/21 14:40	1

Client Sample ID: C-481

Lab Sample ID: 880-6474-15

Date Collected: 09/21/21 13:40

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 05:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 05:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 05:52	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/28/21 13:11	09/30/21 05:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 05:52	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/28/21 13:11	09/30/21 05:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			09/28/21 13:11	09/30/21 05:52	1
1,4-Difluorobenzene (Surr)	84		70 - 130			09/28/21 13:11	09/30/21 05:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 18:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 18:04	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-481

Lab Sample ID: 880-6474-15

Date Collected: 09/21/21 13:40

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 18:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			09/27/21 09:22	09/27/21 18:04	1
o-Terphenyl (Surr)	110		70 - 130			09/27/21 09:22	09/27/21 18:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		5.04	mg/Kg			10/01/21 14:59	1

Client Sample ID: C-482

Lab Sample ID: 880-6474-16

Date Collected: 09/21/21 13:45

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:11	09/30/21 06:13	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:11	09/30/21 06:13	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:11	09/30/21 06:13	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:11	09/30/21 06:13	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:11	09/30/21 06:13	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:11	09/30/21 06:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			09/28/21 13:11	09/30/21 06:13	1
1,4-Difluorobenzene (Surr)	91		70 - 130			09/28/21 13:11	09/30/21 06:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 18:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 18:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			09/27/21 09:22	09/27/21 18:26	1
o-Terphenyl (Surr)	105		70 - 130			09/27/21 09:22	09/27/21 18:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		24.9	mg/Kg			10/01/21 15:05	5

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-483

Lab Sample ID: 880-6474-17

Date Collected: 09/21/21 13:50

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 06:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 06:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 06:33	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:11	09/30/21 06:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:11	09/30/21 06:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:11	09/30/21 06:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	09/28/21 13:11	09/30/21 06:33	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/28/21 13:11	09/30/21 06:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 18:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 18:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	09/27/21 09:22	09/27/21 18:48	1
o-Terphenyl (Surr)	97		70 - 130	09/27/21 09:22	09/27/21 18:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1880		24.8	mg/Kg			10/01/21 15:11	5

Client Sample ID: C-484

Lab Sample ID: 880-6474-18

Date Collected: 09/21/21 13:55

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 06:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 06:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 06:54	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:11	09/30/21 06:54	1
o-Xylene	0.00508		0.00200	mg/Kg		09/28/21 13:11	09/30/21 06:54	1
Xylenes, Total	0.00508		0.00400	mg/Kg		09/28/21 13:11	09/30/21 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	09/28/21 13:11	09/30/21 06:54	1
1,4-Difluorobenzene (Surr)	127		70 - 130	09/28/21 13:11	09/30/21 06:54	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-484

Lab Sample ID: 880-6474-18

Date Collected: 09/21/21 13:55

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00508		0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 19:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 19:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 19:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/27/21 09:22	09/27/21 19:10	1
o-Terphenyl (Surr)	100		70 - 130			09/27/21 09:22	09/27/21 19:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1360		25.0	mg/Kg			10/01/21 15:18	5

Client Sample ID: C-485

Lab Sample ID: 880-6474-19

Date Collected: 09/21/21 14:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 07:14	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 07:14	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 07:14	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:11	09/30/21 07:14	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:11	09/30/21 07:14	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:11	09/30/21 07:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/28/21 13:11	09/30/21 07:14	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/28/21 13:11	09/30/21 07:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 19:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 19:32	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-485

Lab Sample ID: 880-6474-19

Date Collected: 09/21/21 14:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 09:22	09/27/21 19:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			09/27/21 09:22	09/27/21 19:32	1
o-Terphenyl (Surr)	112		70 - 130			09/27/21 09:22	09/27/21 19:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		4.99	mg/Kg			10/01/21 15:37	1

Client Sample ID: C-486

Lab Sample ID: 880-6474-20

Date Collected: 09/21/21 14:32

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 07:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 07:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 07:35	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:11	09/30/21 07:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/30/21 07:35	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:11	09/30/21 07:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			09/28/21 13:11	09/30/21 07:35	1
1,4-Difluorobenzene (Surr)	78		70 - 130			09/28/21 13:11	09/30/21 07:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 19:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 19:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 19:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	5	S1-	70 - 130			09/27/21 09:22	09/27/21 19:54	1
o-Terphenyl (Surr)	0.4	S1-	70 - 130			09/27/21 09:22	09/27/21 19:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8640		49.8	mg/Kg			10/01/21 15:43	10

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-487

Lab Sample ID: 880-6474-21

Date Collected: 09/21/21 14:34

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199	mg/Kg		09/28/21 13:13	10/01/21 07:04	1
Toluene	<0.00199	U F2 F1	0.00199	mg/Kg		09/28/21 13:13	10/01/21 07:04	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		09/28/21 13:13	10/01/21 07:04	1
m,p-Xylenes	<0.00398	U F2 F1	0.00398	mg/Kg		09/28/21 13:13	10/01/21 07:04	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		09/28/21 13:13	10/01/21 07:04	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		09/28/21 13:13	10/01/21 07:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/28/21 13:13	10/01/21 07:04	1
1,4-Difluorobenzene (Surr)	79		70 - 130	09/28/21 13:13	10/01/21 07:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/27/21 21:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/27/21 21:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/27/21 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	09/27/21 13:45	09/27/21 21:46	1
o-Terphenyl (Surr)	103		70 - 130	09/27/21 13:45	09/27/21 21:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2250		24.8	mg/Kg			10/01/21 15:49	5

Client Sample ID: C-488

Lab Sample ID: 880-6474-22

Date Collected: 09/21/21 14:36

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:13	10/01/21 07:30	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:13	10/01/21 07:30	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:13	10/01/21 07:30	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:13	10/01/21 07:30	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:13	10/01/21 07:30	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:13	10/01/21 07:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/28/21 13:13	10/01/21 07:30	1
1,4-Difluorobenzene (Surr)	91		70 - 130	09/28/21 13:13	10/01/21 07:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-488

Lab Sample ID: 880-6474-22

Date Collected: 09/21/21 14:36

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/27/21 22:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/27/21 22:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/27/21 22:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/27/21 13:45	09/27/21 22:51	1
o-Terphenyl (Surr)	106		70 - 130			09/27/21 13:45	09/27/21 22:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		5.04	mg/Kg			10/01/21 15:55	1

Client Sample ID: C-489

Lab Sample ID: 880-6474-23

Date Collected: 09/21/21 14:38

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 07:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 07:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 07:56	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 07:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 07:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 07:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			09/28/21 13:13	10/01/21 07:56	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/28/21 13:13	10/01/21 07:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/27/21 23:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/27/21 23:12	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-489

Lab Sample ID: 880-6474-23

Date Collected: 09/21/21 14:38

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/27/21 23:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/27/21 13:45	09/27/21 23:12	1
o-Terphenyl (Surr)	105		70 - 130			09/27/21 13:45	09/27/21 23:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1670		25.1	mg/Kg			10/01/21 16:02	5

Client Sample ID: C-490

Lab Sample ID: 880-6474-24

Date Collected: 09/21/21 14:40

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 08:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 08:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 08:22	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:13	10/01/21 08:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 08:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:13	10/01/21 08:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			09/28/21 13:13	10/01/21 08:22	1
1,4-Difluorobenzene (Surr)	94		70 - 130			09/28/21 13:13	10/01/21 08:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/27/21 23:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/27/21 23:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/27/21 23:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			09/27/21 13:45	09/27/21 23:33	1
o-Terphenyl (Surr)	110		70 - 130			09/27/21 13:45	09/27/21 23:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	727	F1	4.98	mg/Kg			10/01/21 16:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-491

Lab Sample ID: 880-6474-25

Date Collected: 09/22/21 10:00

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 09:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 09:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 09:07	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 09:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 09:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 09:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/28/21 13:13	10/01/21 09:07	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/28/21 13:13	10/01/21 09:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/27/21 23:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/27/21 23:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/27/21 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130	09/27/21 13:45	09/27/21 23:55	1
o-Terphenyl (Surr)	115		70 - 130	09/27/21 13:45	09/27/21 23:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3210		25.0	mg/Kg			10/01/21 16:27	5

Client Sample ID: C-492

Lab Sample ID: 880-6474-26

Date Collected: 09/22/21 10:02

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 09:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 09:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 09:33	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:13	10/01/21 09:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 09:33	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:13	10/01/21 09:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	09/28/21 13:13	10/01/21 09:33	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/28/21 13:13	10/01/21 09:33	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-492

Lab Sample ID: 880-6474-26

Date Collected: 09/22/21 10:02

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 00:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 00:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 00:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			09/27/21 13:45	09/28/21 00:16	1
o-Terphenyl (Surr)	114		70 - 130			09/27/21 13:45	09/28/21 00:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		4.95	mg/Kg			10/01/21 16:33	1

Client Sample ID: C-493

Lab Sample ID: 880-6474-27

Date Collected: 09/22/21 10:04

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 10:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 10:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 10:00	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 10:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 10:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 10:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			09/28/21 13:13	10/01/21 10:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130			09/28/21 13:13	10/01/21 10:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 00:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 00:37	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-493

Lab Sample ID: 880-6474-27

Date Collected: 09/22/21 10:04

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 00:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/27/21 13:45	09/28/21 00:37	1
o-Terphenyl (Surr)	109		70 - 130			09/27/21 13:45	09/28/21 00:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680		25.1	mg/Kg			10/01/21 16:52	5

Client Sample ID: C-494

Lab Sample ID: 880-6474-28

Date Collected: 09/22/21 10:06

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 10:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 10:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 10:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 10:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 10:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 10:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			09/28/21 13:13	10/01/21 10:27	1
1,4-Difluorobenzene (Surr)	78		70 - 130			09/28/21 13:13	10/01/21 10:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 00:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 00:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 00:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/27/21 13:45	09/28/21 00:58	1
o-Terphenyl (Surr)	112		70 - 130			09/27/21 13:45	09/28/21 00:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3150		24.9	mg/Kg			10/01/21 16:58	5

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-495

Lab Sample ID: 880-6474-29

Date Collected: 09/22/21 10:08

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:13	10/01/21 10:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:13	10/01/21 10:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:13	10/01/21 10:54	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:13	10/01/21 10:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:13	10/01/21 10:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:13	10/01/21 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	09/28/21 13:13	10/01/21 10:54	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/28/21 13:13	10/01/21 10:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/28/21 01:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/28/21 01:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/28/21 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	09/27/21 13:45	09/28/21 01:19	1
o-Terphenyl (Surr)	112		70 - 130	09/27/21 13:45	09/28/21 01:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1610		25.0	mg/Kg			10/01/21 17:04	5

Client Sample ID: C-496

Lab Sample ID: 880-6474-30

Date Collected: 09/22/21 10:10

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 11:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 11:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 11:20	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 11:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 11:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/28/21 13:13	10/01/21 11:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/28/21 13:13	10/01/21 11:20	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-496

Lab Sample ID: 880-6474-30

Date Collected: 09/22/21 10:10

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 01:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 01:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 01:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/27/21 13:45	09/28/21 01:40	1
o-Terphenyl (Surr)	105		70 - 130			09/27/21 13:45	09/28/21 01:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1720		25.3	mg/Kg			10/01/21 17:11	5

Client Sample ID: C-497

Lab Sample ID: 880-6474-31

Date Collected: 09/22/21 10:12

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 13:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 13:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 13:07	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:13	10/01/21 13:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 13:07	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:13	10/01/21 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	165	S1+	70 - 130			09/28/21 13:13	10/01/21 13:07	1
1,4-Difluorobenzene (Surr)	109		70 - 130			09/28/21 13:13	10/01/21 13:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 02:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 02:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-497

Lab Sample ID: 880-6474-31

Date Collected: 09/22/21 10:12

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 02:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			09/27/21 13:45	09/28/21 02:23	1
o-Terphenyl (Surr)	111		70 - 130			09/27/21 13:45	09/28/21 02:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1890		25.2	mg/Kg			10/01/21 17:17	5

Client Sample ID: C-498

Lab Sample ID: 880-6474-32

Date Collected: 09/22/21 10:14

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:13	10/01/21 13:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:13	10/01/21 13:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:13	10/01/21 13:34	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/28/21 13:13	10/01/21 13:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:13	10/01/21 13:34	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/28/21 13:13	10/01/21 13:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			09/28/21 13:13	10/01/21 13:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/28/21 13:13	10/01/21 13:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 02:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 02:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 02:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			09/27/21 13:45	09/28/21 02:44	1
o-Terphenyl (Surr)	117		70 - 130			09/27/21 13:45	09/28/21 02:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	276		4.98	mg/Kg			10/01/21 17:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-499

Lab Sample ID: 880-6474-33

Date Collected: 09/22/21 10:16

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 14:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 14:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 14:01	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:13	10/01/21 14:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 14:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:13	10/01/21 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/28/21 13:13	10/01/21 14:01	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/28/21 13:13	10/01/21 14:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 03:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 03:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 13:45	09/28/21 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	09/27/21 13:45	09/28/21 03:05	1
o-Terphenyl (Surr)	112		70 - 130	09/27/21 13:45	09/28/21 03:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2830		25.0	mg/Kg			10/01/21 17:29	5

Client Sample ID: C-500

Lab Sample ID: 880-6474-34

Date Collected: 09/22/21 10:18

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 14:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 14:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 14:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 14:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 14:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/28/21 13:13	10/01/21 14:27	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/28/21 13:13	10/01/21 14:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-500

Lab Sample ID: 880-6474-34

Date Collected: 09/22/21 10:18

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/28/21 03:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/28/21 03:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/28/21 03:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/27/21 13:45	09/28/21 03:26	1
o-Terphenyl (Surr)	106		70 - 130			09/27/21 13:45	09/28/21 03:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	885		4.95	mg/Kg			09/30/21 05:31	1

Client Sample ID: C-501

Lab Sample ID: 880-6474-35

Date Collected: 09/22/21 10:20

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:13	10/01/21 14:53	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:13	10/01/21 14:53	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:13	10/01/21 14:53	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:13	10/01/21 14:53	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:13	10/01/21 14:53	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:13	10/01/21 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			09/28/21 13:13	10/01/21 14:53	1
1,4-Difluorobenzene (Surr)	101		70 - 130			09/28/21 13:13	10/01/21 14:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 03:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 03:47	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-501

Lab Sample ID: 880-6474-35

Date Collected: 09/22/21 10:20

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			09/27/21 13:45	09/28/21 03:47	1
o-Terphenyl (Surr)	115		70 - 130			09/27/21 13:45	09/28/21 03:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1230		5.01	mg/Kg			09/30/21 05:48	1

Client Sample ID: C-502

Lab Sample ID: 880-6474-36

Date Collected: 09/22/21 10:22

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:13	10/01/21 15:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:13	10/01/21 15:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:13	10/01/21 15:20	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:13	10/01/21 15:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:13	10/01/21 15:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:13	10/01/21 15:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			09/28/21 13:13	10/01/21 15:20	1
1,4-Difluorobenzene (Surr)	105		70 - 130			09/28/21 13:13	10/01/21 15:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 04:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130			09/27/21 13:45	09/28/21 04:08	1
o-Terphenyl (Surr)	112		70 - 130			09/27/21 13:45	09/28/21 04:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1490		4.98	mg/Kg			09/30/21 05:54	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-503

Lab Sample ID: 880-6474-37

Date Collected: 09/22/21 10:24

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 15:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 15:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 15:47	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:13	10/01/21 15:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 15:47	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:13	10/01/21 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/28/21 13:13	10/01/21 15:47	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/28/21 13:13	10/01/21 15:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/28/21 04:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/28/21 04:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/28/21 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	09/27/21 13:45	09/28/21 04:29	1
o-Terphenyl (Surr)	113		70 - 130	09/27/21 13:45	09/28/21 04:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1920		24.8	mg/Kg			09/30/21 05:59	5

Client Sample ID: C-504

Lab Sample ID: 880-6474-38

Date Collected: 09/22/21 10:26

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:13	10/01/21 16:13	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:13	10/01/21 16:13	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:13	10/01/21 16:13	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/28/21 13:13	10/01/21 16:13	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:13	10/01/21 16:13	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/28/21 13:13	10/01/21 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/28/21 13:13	10/01/21 16:13	1
1,4-Difluorobenzene (Surr)	88		70 - 130	09/28/21 13:13	10/01/21 16:13	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-504

Lab Sample ID: 880-6474-38

Date Collected: 09/22/21 10:26

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 04:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 04:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 04:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130			09/27/21 13:45	09/28/21 04:50	1
o-Terphenyl (Surr)	113		70 - 130			09/27/21 13:45	09/28/21 04:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2370		24.8	mg/Kg			09/30/21 06:05	5

Client Sample ID: C-505

Lab Sample ID: 880-6474-39

Date Collected: 09/22/21 10:28

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 16:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 16:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 16:39	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 16:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:13	10/01/21 16:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:13	10/01/21 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			09/28/21 13:13	10/01/21 16:39	1
1,4-Difluorobenzene (Surr)	98		70 - 130			09/28/21 13:13	10/01/21 16:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/28/21 05:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/28/21 05:11	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-505

Lab Sample ID: 880-6474-39

Date Collected: 09/22/21 10:28

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 13:45	09/28/21 05:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/27/21 13:45	09/28/21 05:11	1
o-Terphenyl (Surr)	107		70 - 130			09/27/21 13:45	09/28/21 05:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		5.04	mg/Kg			09/30/21 06:22	1

Client Sample ID: C-506

Lab Sample ID: 880-6474-40

Date Collected: 09/22/21 10:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:13	10/01/21 17:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:13	10/01/21 17:06	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:13	10/01/21 17:06	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/28/21 13:13	10/01/21 17:06	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:13	10/01/21 17:06	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/28/21 13:13	10/01/21 17:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			09/28/21 13:13	10/01/21 17:06	1
1,4-Difluorobenzene (Surr)	95		70 - 130			09/28/21 13:13	10/01/21 17:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 09:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 05:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 05:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/28/21 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			09/27/21 13:45	09/28/21 05:32	1
o-Terphenyl (Surr)	109		70 - 130			09/27/21 13:45	09/28/21 05:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	480		4.97	mg/Kg			09/30/21 06:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-507

Lab Sample ID: 880-6474-41

Date Collected: 09/22/21 10:32

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F2 F1	0.00202	mg/Kg		09/28/21 13:15	10/01/21 15:06	1
Toluene	<0.00202	U F2 F1	0.00202	mg/Kg		09/28/21 13:15	10/01/21 15:06	1
Ethylbenzene	<0.00202	U F2 F1	0.00202	mg/Kg		09/28/21 13:15	10/01/21 15:06	1
m,p-Xylenes	<0.00403	U F2 F1	0.00403	mg/Kg		09/28/21 13:15	10/01/21 15:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 15:06	1
Xylenes, Total	<0.00403	U F2 F1	0.00403	mg/Kg		09/28/21 13:15	10/01/21 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	09/28/21 13:15	10/01/21 15:06	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/28/21 13:15	10/01/21 15:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/27/21 21:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/27/21 21:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/27/21 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	09/27/21 14:00	09/27/21 21:46	1
o-Terphenyl (Surr)	106		70 - 130	09/27/21 14:00	09/27/21 21:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1450		4.99	mg/Kg			09/30/21 06:33	1

Client Sample ID: C-508

Lab Sample ID: 880-6474-42

Date Collected: 09/22/21 10:34

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 15:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 15:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 15:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:15	10/01/21 15:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 15:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:15	10/01/21 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	09/28/21 13:15	10/01/21 15:27	1
1,4-Difluorobenzene (Surr)	128		70 - 130	09/28/21 13:15	10/01/21 15:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-508

Lab Sample ID: 880-6474-42

Date Collected: 09/22/21 10:34

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/27/21 22:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/27/21 22:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/27/21 22:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			09/27/21 14:00	09/27/21 22:51	1
o-Terphenyl (Surr)	105		70 - 130			09/27/21 14:00	09/27/21 22:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2180		24.9	mg/Kg			09/30/21 06:39	5

Client Sample ID: C-509

Lab Sample ID: 880-6474-43

Date Collected: 09/22/21 10:36

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 15:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 15:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 15:47	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:15	10/01/21 15:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 15:47	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:15	10/01/21 15:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			09/28/21 13:15	10/01/21 15:47	1
1,4-Difluorobenzene (Surr)	106		70 - 130			09/28/21 13:15	10/01/21 15:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/27/21 23:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/27/21 23:12	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-509

Lab Sample ID: 880-6474-43

Date Collected: 09/22/21 10:36

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/27/21 23:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/27/21 14:00	09/27/21 23:12	1
o-Terphenyl (Surr)	100		70 - 130			09/27/21 14:00	09/27/21 23:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1370		5.00	mg/Kg			09/30/21 06:44	1

Client Sample ID: C-510

Lab Sample ID: 880-6474-44

Date Collected: 09/22/21 10:38

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:15	10/01/21 16:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:15	10/01/21 16:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:15	10/01/21 16:08	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:15	10/01/21 16:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:15	10/01/21 16:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:15	10/01/21 16:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130			09/28/21 13:15	10/01/21 16:08	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/28/21 13:15	10/01/21 16:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/27/21 23:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/27/21 23:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/27/21 23:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			09/27/21 14:00	09/27/21 23:33	1
o-Terphenyl (Surr)	110		70 - 130			09/27/21 14:00	09/27/21 23:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		5.00	mg/Kg			09/30/21 06:50	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-511

Lab Sample ID: 880-6474-45

Date Collected: 09/22/21 10:40

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 16:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 16:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 16:28	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:15	10/01/21 16:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 16:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:15	10/01/21 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	09/28/21 13:15	10/01/21 16:28	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/28/21 13:15	10/01/21 16:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/27/21 23:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/27/21 23:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/27/21 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	09/27/21 14:00	09/27/21 23:55	1
o-Terphenyl (Surr)	96		70 - 130	09/27/21 14:00	09/27/21 23:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	803		4.99	mg/Kg			09/30/21 07:07	1

Client Sample ID: C-512

Lab Sample ID: 880-6474-46

Date Collected: 09/22/21 10:42

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00227		0.00200	mg/Kg		09/28/21 13:15	10/01/21 16:48	1
Toluene	0.00558		0.00200	mg/Kg		09/28/21 13:15	10/01/21 16:48	1
Ethylbenzene	0.00532		0.00200	mg/Kg		09/28/21 13:15	10/01/21 16:48	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:15	10/01/21 16:48	1
o-Xylene	0.0120		0.00200	mg/Kg		09/28/21 13:15	10/01/21 16:48	1
Xylenes, Total	0.0120		0.00400	mg/Kg		09/28/21 13:15	10/01/21 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/28/21 13:15	10/01/21 16:48	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/28/21 13:15	10/01/21 16:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-512

Lab Sample ID: 880-6474-46

Date Collected: 09/22/21 10:42

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0252		0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 00:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 00:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 00:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			09/27/21 14:00	09/28/21 00:16	1
o-Terphenyl (Surr)	108		70 - 130			09/27/21 14:00	09/28/21 00:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	617		4.98	mg/Kg			09/30/21 07:12	1

Client Sample ID: C-513

Lab Sample ID: 880-6474-47

Date Collected: 09/22/21 10:44

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:15	10/01/21 17:09	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:15	10/01/21 17:09	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:15	10/01/21 17:09	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/28/21 13:15	10/01/21 17:09	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:15	10/01/21 17:09	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/28/21 13:15	10/01/21 17:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			09/28/21 13:15	10/01/21 17:09	1
1,4-Difluorobenzene (Surr)	93		70 - 130			09/28/21 13:15	10/01/21 17:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 00:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 00:37	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-513

Lab Sample ID: 880-6474-47

Date Collected: 09/22/21 10:44

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 00:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/27/21 14:00	09/28/21 00:37	1
o-Terphenyl (Surr)	100		70 - 130			09/27/21 14:00	09/28/21 00:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	880		4.95	mg/Kg			09/30/21 07:29	1

Client Sample ID: C-514

Lab Sample ID: 880-6474-48

Date Collected: 09/22/21 10:46

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:15	10/01/21 17:29	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:15	10/01/21 17:29	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:15	10/01/21 17:29	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:15	10/01/21 17:29	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:15	10/01/21 17:29	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:15	10/01/21 17:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			09/28/21 13:15	10/01/21 17:29	1
1,4-Difluorobenzene (Surr)	83		70 - 130			09/28/21 13:15	10/01/21 17:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 00:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 00:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 00:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			09/27/21 14:00	09/28/21 00:58	1
o-Terphenyl (Surr)	113		70 - 130			09/27/21 14:00	09/28/21 00:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	899		4.95	mg/Kg			09/30/21 07:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-514

Lab Sample ID: 880-6474-49

Date Collected: 09/22/21 10:48

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 17:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 17:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 17:50	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:15	10/01/21 17:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 17:50	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:15	10/01/21 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/28/21 13:15	10/01/21 17:50	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/28/21 13:15	10/01/21 17:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/28/21 01:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/28/21 01:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/28/21 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	09/27/21 14:00	09/28/21 01:19	1
o-Terphenyl (Surr)	105		70 - 130	09/27/21 14:00	09/28/21 01:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3580		25.1	mg/Kg			09/30/21 07:40	5

Client Sample ID: C-516

Lab Sample ID: 880-6474-50

Date Collected: 09/22/21 10:50

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 18:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 18:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 18:10	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:15	10/01/21 18:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 18:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:15	10/01/21 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/28/21 13:15	10/01/21 18:10	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/28/21 13:15	10/01/21 18:10	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-516

Lab Sample ID: 880-6474-50

Date Collected: 09/22/21 10:50

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 12:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 01:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 01:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 01:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			09/27/21 14:00	09/28/21 01:40	1
o-Terphenyl (Surr)	113		70 - 130			09/27/21 14:00	09/28/21 01:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540		24.9	mg/Kg			09/30/21 13:23	5

Client Sample ID: C-517

Lab Sample ID: 880-6474-51

Date Collected: 09/22/21 10:52

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:15	10/01/21 20:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:15	10/01/21 20:00	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:15	10/01/21 20:00	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:15	10/01/21 20:00	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:15	10/01/21 20:00	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:15	10/01/21 20:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			09/28/21 13:15	10/01/21 20:00	1
1,4-Difluorobenzene (Surr)	116		70 - 130			09/28/21 13:15	10/01/21 20:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 02:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 02:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-517

Lab Sample ID: 880-6474-51

Date Collected: 09/22/21 10:52

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 02:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/27/21 14:00	09/28/21 02:23	1
o-Terphenyl (Surr)	100		70 - 130			09/27/21 14:00	09/28/21 02:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2410		25.0	mg/Kg			09/30/21 13:29	5

Client Sample ID: C-518

Lab Sample ID: 880-6474-52

Date Collected: 09/22/21 10:54

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 20:20	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 20:20	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 20:20	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:15	10/01/21 20:20	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 20:20	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:15	10/01/21 20:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			09/28/21 13:15	10/01/21 20:20	1
1,4-Difluorobenzene (Surr)	83		70 - 130			09/28/21 13:15	10/01/21 20:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 02:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 02:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 02:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/27/21 14:00	09/28/21 02:44	1
o-Terphenyl (Surr)	97		70 - 130			09/27/21 14:00	09/28/21 02:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1760		25.0	mg/Kg			09/30/21 07:57	5

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-519

Lab Sample ID: 880-6474-53

Date Collected: 09/22/21 10:56

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 20:41	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 20:41	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 20:41	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:15	10/01/21 20:41	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 20:41	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:15	10/01/21 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	09/28/21 13:15	10/01/21 20:41	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/28/21 13:15	10/01/21 20:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 03:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 03:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:00	09/28/21 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	09/27/21 14:00	09/28/21 03:05	1
o-Terphenyl (Surr)	103		70 - 130	09/27/21 14:00	09/28/21 03:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1280		5.00	mg/Kg			09/30/21 08:03	1

Client Sample ID: C-520

Lab Sample ID: 880-6474-54

Date Collected: 09/22/21 10:58

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 21:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 21:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 21:01	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:15	10/01/21 21:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 21:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:15	10/01/21 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	09/28/21 13:15	10/01/21 21:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/28/21 13:15	10/01/21 21:01	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-520

Lab Sample ID: 880-6474-54

Date Collected: 09/22/21 10:58

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/28/21 03:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/28/21 03:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/28/21 03:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			09/27/21 14:00	09/28/21 03:26	1
o-Terphenyl (Surr)	104		70 - 130			09/27/21 14:00	09/28/21 03:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	894		4.95	mg/Kg			09/30/21 19:47	1

Client Sample ID: C-521

Lab Sample ID: 880-6474-55

Date Collected: 09/22/21 11:00

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 21:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 21:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 21:22	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:15	10/01/21 21:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 21:22	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:15	10/01/21 21:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			09/28/21 13:15	10/01/21 21:22	1
1,4-Difluorobenzene (Surr)	82		70 - 130			09/28/21 13:15	10/01/21 21:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 03:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 03:47	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-521

Lab Sample ID: 880-6474-55

Date Collected: 09/22/21 11:00

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130			09/27/21 14:00	09/28/21 03:47	1
o-Terphenyl (Surr)	117		70 - 130			09/27/21 14:00	09/28/21 03:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1220		5.05	mg/Kg			09/30/21 20:05	1

Client Sample ID: C-522

Lab Sample ID: 880-6474-56

Date Collected: 09/22/21 11:02

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 21:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 21:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 21:42	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:15	10/01/21 21:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 21:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:15	10/01/21 21:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130			09/28/21 13:15	10/01/21 21:42	1
1,4-Difluorobenzene (Surr)	72		70 - 130			09/28/21 13:15	10/01/21 21:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 04:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/27/21 14:00	09/28/21 04:08	1
o-Terphenyl (Surr)	96		70 - 130			09/27/21 14:00	09/28/21 04:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		4.97	mg/Kg			09/30/21 20:11	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-523

Lab Sample ID: 880-6474-57

Date Collected: 09/22/21 11:04

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 22:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 22:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 22:02	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:15	10/01/21 22:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 22:02	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:15	10/01/21 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	09/28/21 13:15	10/01/21 22:02	1
1,4-Difluorobenzene (Surr)	78		70 - 130	09/28/21 13:15	10/01/21 22:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/28/21 04:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/28/21 04:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/28/21 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130	09/27/21 14:00	09/28/21 04:29	1
o-Terphenyl (Surr)	104		70 - 130	09/27/21 14:00	09/28/21 04:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		4.95	mg/Kg			09/30/21 20:17	1

Client Sample ID: C-524

Lab Sample ID: 880-6474-58

Date Collected: 09/22/21 11:06

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 22:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 22:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 22:23	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:15	10/01/21 22:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 22:23	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:15	10/01/21 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	09/28/21 13:15	10/01/21 22:23	1
1,4-Difluorobenzene (Surr)	146	S1+	70 - 130	09/28/21 13:15	10/01/21 22:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-524

Lab Sample ID: 880-6474-58

Date Collected: 09/22/21 11:06

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 04:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 04:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 04:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			09/27/21 14:00	09/28/21 04:50	1
o-Terphenyl (Surr)	96		70 - 130			09/27/21 14:00	09/28/21 04:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		25.1	mg/Kg			09/30/21 20:24	5

Client Sample ID: C-525

Lab Sample ID: 880-6474-59

Date Collected: 09/22/21 11:08

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 22:43	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 22:43	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 22:43	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:15	10/01/21 22:43	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:15	10/01/21 22:43	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:15	10/01/21 22:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130			09/28/21 13:15	10/01/21 22:43	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130			09/28/21 13:15	10/01/21 22:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/28/21 05:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/28/21 05:11	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-525

Lab Sample ID: 880-6474-59

Date Collected: 09/22/21 11:08

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 14:00	09/28/21 05:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			09/27/21 14:00	09/28/21 05:11	1
o-Terphenyl (Surr)	96		70 - 130			09/27/21 14:00	09/28/21 05:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1410		4.99	mg/Kg			09/30/21 20:42	1

Client Sample ID: C-526

Lab Sample ID: 880-6474-60

Date Collected: 09/22/21 11:10

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 23:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 23:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 23:03	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:15	10/01/21 23:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:15	10/01/21 23:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:15	10/01/21 23:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/28/21 13:15	10/01/21 23:03	1
1,4-Difluorobenzene (Surr)	106		70 - 130			09/28/21 13:15	10/01/21 23:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 05:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 05:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/28/21 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/27/21 14:00	09/28/21 05:32	1
o-Terphenyl (Surr)	97		70 - 130			09/27/21 14:00	09/28/21 05:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1960		24.9	mg/Kg			09/30/21 20:48	5

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-527

Lab Sample ID: 880-6474-61

Date Collected: 09/22/21 11:12

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	09/30/21 23:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	09/30/21 23:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	09/30/21 23:23	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:17	09/30/21 23:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	09/30/21 23:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:17	09/30/21 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	09/28/21 13:17	09/30/21 23:23	1
1,4-Difluorobenzene (Surr)	88		70 - 130	09/28/21 13:17	09/30/21 23:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 11:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 11:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	09/27/21 14:46	09/28/21 11:17	1
o-Terphenyl (Surr)	84		70 - 130	09/27/21 14:46	09/28/21 11:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2460		24.8	mg/Kg			09/30/21 20:54	5

Client Sample ID: C-528

Lab Sample ID: 880-6474-62

Date Collected: 09/22/21 11:14

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	09/30/21 23:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	09/30/21 23:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	09/30/21 23:43	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:17	09/30/21 23:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	09/30/21 23:43	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:17	09/30/21 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	09/28/21 13:17	09/30/21 23:43	1
1,4-Difluorobenzene (Surr)	84		70 - 130	09/28/21 13:17	09/30/21 23:43	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-528

Lab Sample ID: 880-6474-62

Date Collected: 09/22/21 11:14

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 12:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 12:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 12:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			09/27/21 14:46	09/28/21 12:22	1
o-Terphenyl (Surr)	88		70 - 130			09/27/21 14:46	09/28/21 12:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1450		4.95	mg/Kg			09/30/21 21:01	1

Client Sample ID: C-529

Lab Sample ID: 880-6474-63

Date Collected: 09/22/21 11:16

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:17	10/01/21 00:04	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:17	10/01/21 00:04	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:17	10/01/21 00:04	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/28/21 13:17	10/01/21 00:04	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:17	10/01/21 00:04	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/28/21 13:17	10/01/21 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			09/28/21 13:17	10/01/21 00:04	1
1,4-Difluorobenzene (Surr)	74		70 - 130			09/28/21 13:17	10/01/21 00:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 12:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 12:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-529

Lab Sample ID: 880-6474-63

Date Collected: 09/22/21 11:16

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			09/27/21 14:46	09/28/21 12:44	1
o-Terphenyl (Surr)	90		70 - 130			09/27/21 14:46	09/28/21 12:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2080		25.2	mg/Kg			09/30/21 21:07	5

Client Sample ID: C-531

Lab Sample ID: 880-6474-64

Date Collected: 09/22/21 11:18

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 00:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 00:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 00:24	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:17	10/01/21 00:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 00:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:17	10/01/21 00:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			09/28/21 13:17	10/01/21 00:24	1
1,4-Difluorobenzene (Surr)	81		70 - 130			09/28/21 13:17	10/01/21 00:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 13:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 13:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 13:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/27/21 14:46	09/28/21 13:05	1
o-Terphenyl (Surr)	101		70 - 130			09/27/21 14:46	09/28/21 13:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		5.00	mg/Kg			09/30/21 21:13	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-531

Lab Sample ID: 880-6474-65

Date Collected: 09/22/21 11:20

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:17	10/01/21 00:45	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:17	10/01/21 00:45	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:17	10/01/21 00:45	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:17	10/01/21 00:45	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:17	10/01/21 00:45	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:17	10/01/21 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	09/28/21 13:17	10/01/21 00:45	1
1,4-Difluorobenzene (Surr)	74		70 - 130	09/28/21 13:17	10/01/21 00:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 13:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 13:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	09/27/21 14:46	09/28/21 13:27	1
o-Terphenyl (Surr)	99		70 - 130	09/27/21 14:46	09/28/21 13:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	887		4.96	mg/Kg			09/30/21 21:31	1

Client Sample ID: C-532

Lab Sample ID: 880-6474-66

Date Collected: 09/22/21 11:22

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	10/01/21 01:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	10/01/21 01:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	10/01/21 01:05	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:17	10/01/21 01:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	10/01/21 01:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:17	10/01/21 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/28/21 13:17	10/01/21 01:05	1
1,4-Difluorobenzene (Surr)	80		70 - 130	09/28/21 13:17	10/01/21 01:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-532

Lab Sample ID: 880-6474-66

Date Collected: 09/22/21 11:22

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 13:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 13:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 13:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			09/27/21 14:46	09/28/21 13:49	1
o-Terphenyl (Surr)	97		70 - 130			09/27/21 14:46	09/28/21 13:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.8		4.98	mg/Kg			09/30/21 21:38	1

Client Sample ID: C-533

Lab Sample ID: 880-6474-67

Date Collected: 09/22/21 11:24

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:17	10/01/21 01:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:17	10/01/21 01:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:17	10/01/21 01:26	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:17	10/01/21 01:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:17	10/01/21 01:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:17	10/01/21 01:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			09/28/21 13:17	10/01/21 01:26	1
1,4-Difluorobenzene (Surr)	85		70 - 130			09/28/21 13:17	10/01/21 01:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 14:10	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-533

Lab Sample ID: 880-6474-67

Date Collected: 09/22/21 11:24

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 14:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			09/27/21 14:46	09/28/21 14:10	1
o-Terphenyl (Surr)	98		70 - 130			09/27/21 14:46	09/28/21 14:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.2		4.99	mg/Kg			09/30/21 21:56	1

Client Sample ID: C-534

Lab Sample ID: 880-6474-68

Date Collected: 09/22/21 11:26

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 01:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 01:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 01:46	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:17	10/01/21 01:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 01:46	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:17	10/01/21 01:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			09/28/21 13:17	10/01/21 01:46	1
1,4-Difluorobenzene (Surr)	87		70 - 130			09/28/21 13:17	10/01/21 01:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 14:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			09/27/21 14:46	09/28/21 14:32	1
o-Terphenyl (Surr)	100		70 - 130			09/27/21 14:46	09/28/21 14:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		4.97	mg/Kg			09/30/21 22:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-535

Lab Sample ID: 880-6474-69

Date Collected: 09/22/21 11:28

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:17	10/01/21 02:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:17	10/01/21 02:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:17	10/01/21 02:07	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:17	10/01/21 02:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:17	10/01/21 02:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:17	10/01/21 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	09/28/21 13:17	10/01/21 02:07	1
1,4-Difluorobenzene (Surr)	87		70 - 130	09/28/21 13:17	10/01/21 02:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 14:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 14:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	09/27/21 14:46	09/28/21 14:54	1
o-Terphenyl (Surr)	97		70 - 130	09/27/21 14:46	09/28/21 14:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	297		4.95	mg/Kg			09/30/21 22:08	1

Client Sample ID: C-536

Lab Sample ID: 880-6474-70

Date Collected: 09/22/21 11:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 02:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 02:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 02:27	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:17	10/01/21 02:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 02:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:17	10/01/21 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/28/21 13:17	10/01/21 02:27	1
4-Bromofluorobenzene (Surr)	106		70 - 130	09/28/21 13:17	10/01/21 03:50	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/28/21 13:17	10/01/21 02:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-536

Lab Sample ID: 880-6474-70

Date Collected: 09/22/21 11:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	09/28/21 13:17	10/01/21 03:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 15:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 15:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 15:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			09/27/21 14:46	09/28/21 15:15	1
o-Terphenyl (Surr)	98		70 - 130			09/27/21 14:46	09/28/21 15:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		4.95	mg/Kg			09/30/21 22:14	1

Client Sample ID: C-537

Lab Sample ID: 880-6474-71

Date Collected: 09/22/21 11:32

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 04:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 04:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 04:11	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:17	10/01/21 04:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 04:11	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:17	10/01/21 04:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130			09/28/21 13:17	10/01/21 04:11	1
1,4-Difluorobenzene (Surr)	79		70 - 130			09/28/21 13:17	10/01/21 04:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-537

Lab Sample ID: 880-6474-71

Date Collected: 09/22/21 11:32

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 15:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 15:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	09/27/21 14:46	09/28/21 15:59	1
o-Terphenyl (Surr)	99		70 - 130	09/27/21 14:46	09/28/21 15:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470		5.00	mg/Kg			09/30/21 22:21	1

Client Sample ID: C-538

Lab Sample ID: 880-6474-72

Date Collected: 09/22/21 11:34

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 04:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 04:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 04:31	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:17	10/01/21 04:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 04:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:17	10/01/21 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/28/21 13:17	10/01/21 04:31	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/28/21 13:17	10/01/21 04:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 16:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 16:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	09/27/21 14:46	09/28/21 16:21	1
o-Terphenyl (Surr)	104		70 - 130	09/27/21 14:46	09/28/21 16:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-538

Lab Sample ID: 880-6474-72

Date Collected: 09/22/21 11:34

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	748		5.00	mg/Kg			09/30/21 22:27	1

Client Sample ID: C-539

Lab Sample ID: 880-6474-73

Date Collected: 09/22/21 11:36

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:17	10/01/21 04:52	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:17	10/01/21 04:52	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:17	10/01/21 04:52	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/28/21 13:17	10/01/21 04:52	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:17	10/01/21 04:52	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/28/21 13:17	10/01/21 04:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	09/28/21 13:17	10/01/21 04:52	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/28/21 13:17	10/01/21 04:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 16:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 16:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 14:46	09/28/21 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	09/27/21 14:46	09/28/21 16:42	1
o-Terphenyl (Surr)	82		70 - 130	09/27/21 14:46	09/28/21 16:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	382		5.04	mg/Kg			09/30/21 22:33	1

Client Sample ID: C-540

Lab Sample ID: 880-6474-74

Date Collected: 09/22/21 11:38

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	10/01/21 05:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	10/01/21 05:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	10/01/21 05:12	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-540

Lab Sample ID: 880-6474-74

Date Collected: 09/22/21 11:38

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:17	10/01/21 05:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	10/01/21 05:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:17	10/01/21 05:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			09/28/21 13:17	10/01/21 05:12	1
1,4-Difluorobenzene (Surr)	78		70 - 130			09/28/21 13:17	10/01/21 05:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 17:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 17:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 17:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			09/27/21 14:46	09/28/21 17:04	1
o-Terphenyl (Surr)	89		70 - 130			09/27/21 14:46	09/28/21 17:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		5.04	mg/Kg			09/30/21 23:22	1

Client Sample ID: C-541

Lab Sample ID: 880-6474-75

Date Collected: 09/22/21 11:40

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	10/01/21 05:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	10/01/21 05:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	10/01/21 05:33	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:17	10/01/21 05:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:17	10/01/21 05:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:17	10/01/21 05:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			09/28/21 13:17	10/01/21 05:33	1
1,4-Difluorobenzene (Surr)	77		70 - 130			09/28/21 13:17	10/01/21 05:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-541

Lab Sample ID: 880-6474-75

Date Collected: 09/22/21 11:40

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 17:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 17:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			09/27/21 14:46	09/28/21 17:25	1
o-Terphenyl (Surr)	87		70 - 130			09/27/21 14:46	09/28/21 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	322		4.99	mg/Kg			09/30/21 23:41	1

Client Sample ID: C-542

Lab Sample ID: 880-6474-76

Date Collected: 09/22/21 11:42

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:17	10/01/21 05:53	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:17	10/01/21 05:53	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:17	10/01/21 05:53	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:17	10/01/21 05:53	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:17	10/01/21 05:53	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:17	10/01/21 05:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			09/28/21 13:17	10/01/21 05:53	1
1,4-Difluorobenzene (Surr)	89		70 - 130			09/28/21 13:17	10/01/21 05:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 17:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 17:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 17:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			09/27/21 14:46	09/28/21 17:47	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-542

Lab Sample ID: 880-6474-76

Date Collected: 09/22/21 11:42

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	86		70 - 130	09/27/21 14:46	09/28/21 17:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	540		4.98	mg/Kg			09/30/21 23:47	1

Client Sample ID: C-543

Lab Sample ID: 880-6474-77

Date Collected: 09/22/21 11:44

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 06:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 06:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 06:14	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:17	10/01/21 06:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 06:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:17	10/01/21 06:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/28/21 13:17	10/01/21 06:14	1
1,4-Difluorobenzene (Surr)	81		70 - 130			09/28/21 13:17	10/01/21 06:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 18:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 18:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			09/27/21 14:46	09/28/21 18:09	1
o-Terphenyl (Surr)	96		70 - 130			09/27/21 14:46	09/28/21 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	527		4.97	mg/Kg			09/30/21 23:53	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-544

Lab Sample ID: 880-6474-78

Date Collected: 09/22/21 11:46

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:17	10/01/21 06:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:17	10/01/21 06:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:17	10/01/21 06:34	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:17	10/01/21 06:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:17	10/01/21 06:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:17	10/01/21 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	09/28/21 13:17	10/01/21 06:34	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/28/21 13:17	10/01/21 06:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 18:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 18:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	09/27/21 14:46	09/28/21 18:30	1
o-Terphenyl (Surr)	93		70 - 130	09/27/21 14:46	09/28/21 18:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	369		4.96	mg/Kg			09/30/21 23:59	1

Client Sample ID: C-545

Lab Sample ID: 880-6474-79

Date Collected: 09/22/21 11:48

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:17	10/01/21 06:54	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:17	10/01/21 06:54	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:17	10/01/21 06:54	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/28/21 13:17	10/01/21 06:54	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:17	10/01/21 06:54	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/28/21 13:17	10/01/21 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/28/21 13:17	10/01/21 06:54	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130	09/28/21 13:17	10/01/21 06:54	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-545

Lab Sample ID: 880-6474-79

Date Collected: 09/22/21 11:48

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 18:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 18:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 14:46	09/28/21 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			09/27/21 14:46	09/28/21 18:52	1
o-Terphenyl (Surr)	102		70 - 130			09/27/21 14:46	09/28/21 18:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		5.00	mg/Kg			10/01/21 00:18	1

Client Sample ID: C-546

Lab Sample ID: 880-6474-80

Date Collected: 09/22/21 11:50

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 07:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 07:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 07:14	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:17	10/01/21 07:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	10/01/21 07:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:17	10/01/21 07:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/28/21 13:17	10/01/21 07:14	1
1,4-Difluorobenzene (Surr)	78		70 - 130			09/28/21 13:17	10/01/21 07:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 19:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 19:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-546

Lab Sample ID: 880-6474-80

Date Collected: 09/22/21 11:50

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 19:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130			09/27/21 14:46	09/28/21 19:14	1
o-Terphenyl (Surr)	86		70 - 130			09/27/21 14:46	09/28/21 19:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	573		4.96	mg/Kg			10/01/21 00:24	1

Client Sample ID: C-547

Lab Sample ID: 880-6474-81

Date Collected: 09/22/21 11:52

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200	mg/Kg		09/28/21 13:20	09/30/21 23:31	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		09/28/21 13:20	09/30/21 23:31	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/Kg		09/28/21 13:20	09/30/21 23:31	1
m,p-Xylenes	<0.00399	U F1	0.00399	mg/Kg		09/28/21 13:20	09/30/21 23:31	1
o-Xylene	<0.00200	U F1	0.00200	mg/Kg		09/28/21 13:20	09/30/21 23:31	1
Xylenes, Total	<0.00399	U F1	0.00399	mg/Kg		09/28/21 13:20	09/30/21 23:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			09/28/21 13:20	09/30/21 23:31	1
1,4-Difluorobenzene (Surr)	93		70 - 130			09/28/21 13:20	09/30/21 23:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 11:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 11:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 11:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			09/27/21 15:03	09/28/21 11:17	1
o-Terphenyl (Surr)	114		70 - 130			09/27/21 15:03	09/28/21 11:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	331		4.95	mg/Kg			10/01/21 00:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-548

Lab Sample ID: 880-6474-82

Date Collected: 09/22/21 11:54

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	09/30/21 23:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	09/30/21 23:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	09/30/21 23:52	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:20	09/30/21 23:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	09/30/21 23:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:20	09/30/21 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/28/21 13:20	09/30/21 23:52	1
1,4-Difluorobenzene (Surr)	111		70 - 130	09/28/21 13:20	09/30/21 23:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 12:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 12:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	09/27/21 15:03	09/28/21 12:22	1
o-Terphenyl (Surr)	115		70 - 130	09/27/21 15:03	09/28/21 12:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		5.01	mg/Kg			10/01/21 00:36	1

Client Sample ID: C-549

Lab Sample ID: 880-6474-83

Date Collected: 09/22/21 11:56

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	10/01/21 00:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	10/01/21 00:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	10/01/21 00:13	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:20	10/01/21 00:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	10/01/21 00:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:20	10/01/21 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	09/28/21 13:20	10/01/21 00:13	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/28/21 13:20	10/01/21 00:13	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-549

Lab Sample ID: 880-6474-83

Date Collected: 09/22/21 11:56

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 12:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 12:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/27/21 15:03	09/28/21 12:44	1
o-Terphenyl (Surr)	113		70 - 130			09/27/21 15:03	09/28/21 12:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	169		4.97	mg/Kg			10/01/21 00:42	1

Client Sample ID: C-550

Lab Sample ID: 880-6474-84

Date Collected: 09/22/21 11:58

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:20	10/01/21 00:34	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:20	10/01/21 00:34	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:20	10/01/21 00:34	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/28/21 13:20	10/01/21 00:34	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:20	10/01/21 00:34	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/28/21 13:20	10/01/21 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/28/21 13:20	10/01/21 00:34	1
1,4-Difluorobenzene (Surr)	107		70 - 130			09/28/21 13:20	10/01/21 00:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 13:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 13:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-550

Lab Sample ID: 880-6474-84

Date Collected: 09/22/21 11:58

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 13:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/27/21 15:03	09/28/21 13:05	1
o-Terphenyl (Surr)	105		70 - 130			09/27/21 15:03	09/28/21 13:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	798	F1	4.98	mg/Kg			10/01/21 00:48	1

Client Sample ID: C-551

Lab Sample ID: 880-6474-85

Date Collected: 09/22/21 12:00

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:20	10/01/21 00:55	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:20	10/01/21 00:55	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:20	10/01/21 00:55	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:20	10/01/21 00:55	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:20	10/01/21 00:55	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:20	10/01/21 00:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			09/28/21 13:20	10/01/21 00:55	1
1,4-Difluorobenzene (Surr)	96		70 - 130			09/28/21 13:20	10/01/21 00:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 13:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 13:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 13:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			09/27/21 15:03	09/28/21 13:27	1
o-Terphenyl (Surr)	114		70 - 130			09/27/21 15:03	09/28/21 13:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		5.01	mg/Kg			10/01/21 01:07	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-552

Lab Sample ID: 880-6474-86

Date Collected: 09/22/21 12:02

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 01:15	1
Toluene	0.00253		0.00199	mg/Kg		09/28/21 13:20	10/01/21 01:15	1
Ethylbenzene	0.00351		0.00199	mg/Kg		09/28/21 13:20	10/01/21 01:15	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:20	10/01/21 01:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 01:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:20	10/01/21 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	09/28/21 13:20	10/01/21 01:15	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/28/21 13:20	10/01/21 01:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00604		0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 13:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 13:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	09/27/21 15:03	09/28/21 13:49	1
o-Terphenyl (Surr)	117		70 - 130	09/27/21 15:03	09/28/21 13:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		4.98	mg/Kg			10/01/21 01:13	1

Client Sample ID: C-553

Lab Sample ID: 880-6474-87

Date Collected: 09/22/21 12:04

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 01:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 01:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 01:36	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:20	10/01/21 01:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 01:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:20	10/01/21 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	09/28/21 13:20	10/01/21 01:36	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/28/21 13:20	10/01/21 01:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-553

Lab Sample ID: 880-6474-87

Date Collected: 09/22/21 12:04

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 14:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 14:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/27/21 15:03	09/28/21 14:10	1
o-Terphenyl (Surr)	111		70 - 130			09/27/21 15:03	09/28/21 14:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	461		4.97	mg/Kg			10/01/21 01:32	1

Client Sample ID: C-554

Lab Sample ID: 880-6474-88

Date Collected: 09/22/21 12:06

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	10/01/21 01:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	10/01/21 01:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	10/01/21 01:57	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:20	10/01/21 01:57	1
o-Xylene	0.00227		0.00200	mg/Kg		09/28/21 13:20	10/01/21 01:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:20	10/01/21 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			09/28/21 13:20	10/01/21 01:57	1
1,4-Difluorobenzene (Surr)	70		70 - 130			09/28/21 13:20	10/01/21 01:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00227		0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 14:32	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-554

Lab Sample ID: 880-6474-88

Date Collected: 09/22/21 12:06

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			09/27/21 15:03	09/28/21 14:32	1
o-Terphenyl (Surr)	99		70 - 130			09/27/21 15:03	09/28/21 14:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	955		5.04	mg/Kg			10/01/21 01:38	1

Client Sample ID: C-555

Lab Sample ID: 880-6474-89

Date Collected: 09/22/21 12:08

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:20	10/01/21 02:18	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:20	10/01/21 02:18	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:20	10/01/21 02:18	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/28/21 13:20	10/01/21 02:18	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:20	10/01/21 02:18	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/28/21 13:20	10/01/21 02:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130			09/28/21 13:20	10/01/21 02:18	1
1,4-Difluorobenzene (Surr)	120		70 - 130			09/28/21 13:20	10/01/21 02:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 14:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 14:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			09/27/21 15:03	09/28/21 14:54	1
o-Terphenyl (Surr)	121		70 - 130			09/27/21 15:03	09/28/21 14:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	199		5.05	mg/Kg			10/01/21 01:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-556

Lab Sample ID: 880-6474-90

Date Collected: 09/22/21 12:10

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:20	10/01/21 02:39	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:20	10/01/21 02:39	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:20	10/01/21 02:39	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:20	10/01/21 02:39	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:20	10/01/21 02:39	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:20	10/01/21 02:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/28/21 13:20	10/01/21 02:39	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/28/21 13:20	10/01/21 02:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 15:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 15:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	09/27/21 15:03	09/28/21 15:15	1
o-Terphenyl (Surr)	114		70 - 130	09/27/21 15:03	09/28/21 15:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	361		4.98	mg/Kg			10/01/21 01:50	1

Client Sample ID: C-557

Lab Sample ID: 880-6474-91

Date Collected: 09/22/21 12:12

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 04:02	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 04:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 04:02	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:20	10/01/21 04:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 04:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:20	10/01/21 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	09/28/21 13:20	10/01/21 04:02	1
1,4-Difluorobenzene (Surr)	87		70 - 130	09/28/21 13:20	10/01/21 04:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-557

Lab Sample ID: 880-6474-91

Date Collected: 09/22/21 12:12

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 15:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 15:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 15:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			09/27/21 15:03	09/28/21 15:59	1
o-Terphenyl (Surr)	122		70 - 130			09/27/21 15:03	09/28/21 15:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.6		4.95	mg/Kg			10/01/21 01:56	1

Client Sample ID: C-558

Lab Sample ID: 880-6474-92

Date Collected: 09/22/21 12:14

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	10/01/21 04:23	1
Toluene	0.00241		0.00200	mg/Kg		09/28/21 13:20	10/01/21 04:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	10/01/21 04:23	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:20	10/01/21 04:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	10/01/21 04:23	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:20	10/01/21 04:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			09/28/21 13:20	10/01/21 04:23	1
1,4-Difluorobenzene (Surr)	89		70 - 130			09/28/21 13:20	10/01/21 04:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00241		0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 16:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 16:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-558

Lab Sample ID: 880-6474-92

Date Collected: 09/22/21 12:14

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 16:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/27/21 15:03	09/28/21 16:21	1
o-Terphenyl (Surr)	102		70 - 130			09/27/21 15:03	09/28/21 16:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		4.95	mg/Kg			10/01/21 02:02	1

Client Sample ID: C-559

Lab Sample ID: 880-6474-93

Date Collected: 09/22/21 12:16

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 04:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 04:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 04:43	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:20	10/01/21 04:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 04:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:20	10/01/21 04:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			09/28/21 13:20	10/01/21 04:43	1
1,4-Difluorobenzene (Surr)	81		70 - 130			09/28/21 13:20	10/01/21 04:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 16:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 16:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 15:03	09/28/21 16:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			09/27/21 15:03	09/28/21 16:42	1
o-Terphenyl (Surr)	127		70 - 130			09/27/21 15:03	09/28/21 16:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	372		4.95	mg/Kg			10/01/21 02:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-560

Lab Sample ID: 880-6474-94

Date Collected: 09/22/21 12:18

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 05:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 05:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 05:04	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:20	10/01/21 05:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 05:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:20	10/01/21 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	09/28/21 13:20	10/01/21 05:04	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/28/21 13:20	10/01/21 05:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 17:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 17:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130	09/27/21 15:03	09/28/21 17:04	1
o-Terphenyl (Surr)	130		70 - 130	09/27/21 15:03	09/28/21 17:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	345		4.99	mg/Kg			10/01/21 02:58	1

Client Sample ID: C-561

Lab Sample ID: 880-6474-95

Date Collected: 09/22/21 12:20

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 05:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 05:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 05:25	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:20	10/01/21 05:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 05:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:20	10/01/21 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/28/21 13:20	10/01/21 05:25	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/28/21 13:20	10/01/21 05:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-561

Lab Sample ID: 880-6474-95

Date Collected: 09/22/21 12:20

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 17:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 17:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/27/21 15:03	09/28/21 17:25	1
o-Terphenyl (Surr)	113		70 - 130			09/27/21 15:03	09/28/21 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	299		5.04	mg/Kg			10/01/21 03:16	1

Client Sample ID: C-562

Lab Sample ID: 880-6474-96

Date Collected: 09/23/21 08:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:20	10/01/21 05:46	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:20	10/01/21 05:46	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:20	10/01/21 05:46	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/28/21 13:20	10/01/21 05:46	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:20	10/01/21 05:46	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/28/21 13:20	10/01/21 05:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			09/28/21 13:20	10/01/21 05:46	1
1,4-Difluorobenzene (Surr)	96		70 - 130			09/28/21 13:20	10/01/21 05:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 17:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 17:47	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-562

Lab Sample ID: 880-6474-96

Date Collected: 09/23/21 08:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 17:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/27/21 15:03	09/28/21 17:47	1
o-Terphenyl (Surr)	111		70 - 130			09/27/21 15:03	09/28/21 17:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1660		24.9	mg/Kg			10/01/21 03:22	5

Client Sample ID: C-563

Lab Sample ID: 880-6474-97

Date Collected: 09/23/21 08:32

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 06:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 06:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 06:07	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:20	10/01/21 06:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 06:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:20	10/01/21 06:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			09/28/21 13:20	10/01/21 06:07	1
1,4-Difluorobenzene (Surr)	129		70 - 130			09/28/21 13:20	10/01/21 06:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 18:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 18:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/27/21 15:03	09/28/21 18:09	1
o-Terphenyl (Surr)	102		70 - 130			09/27/21 15:03	09/28/21 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	385		4.95	mg/Kg			10/01/21 03:29	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-564

Lab Sample ID: 880-6474-98

Date Collected: 09/23/21 08:34

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 06:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 06:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 06:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:20	10/01/21 06:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:20	10/01/21 06:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:20	10/01/21 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/28/21 13:20	10/01/21 06:27	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/28/21 13:20	10/01/21 06:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 18:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 18:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	09/27/21 15:03	09/28/21 18:30	1
o-Terphenyl (Surr)	116		70 - 130	09/27/21 15:03	09/28/21 18:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	583		5.00	mg/Kg			10/01/21 03:35	1

Client Sample ID: C-565

Lab Sample ID: 880-6474-99

Date Collected: 09/23/21 08:36

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 06:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 06:48	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 06:48	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:20	10/01/21 06:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:20	10/01/21 06:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:20	10/01/21 06:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/28/21 13:20	10/01/21 06:48	1
1,4-Difluorobenzene (Surr)	79		70 - 130	09/28/21 13:20	10/01/21 06:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-565

Lab Sample ID: 880-6474-99

Date Collected: 09/23/21 08:36

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 18:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 18:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 15:03	09/28/21 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			09/27/21 15:03	09/28/21 18:52	1
o-Terphenyl (Surr)	118		70 - 130			09/27/21 15:03	09/28/21 18:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1360		4.98	mg/Kg			10/01/21 03:53	1

Client Sample ID: C-566

Lab Sample ID: 880-6474-100

Date Collected: 09/23/21 08:38

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:20	10/01/21 07:09	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:20	10/01/21 07:09	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:20	10/01/21 07:09	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/28/21 13:20	10/01/21 07:09	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:20	10/01/21 07:09	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/28/21 13:20	10/01/21 07:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			09/28/21 13:20	10/01/21 07:09	1
1,4-Difluorobenzene (Surr)	93		70 - 130			09/28/21 13:20	10/01/21 07:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 19:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 19:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-566

Lab Sample ID: 880-6474-100

Date Collected: 09/23/21 08:38

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 19:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			09/27/21 15:03	09/28/21 19:14	1
o-Terphenyl (Surr)	101		70 - 130			09/27/21 15:03	09/28/21 19:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		4.95	mg/Kg			10/01/21 03:59	1

Client Sample ID: C-567

Lab Sample ID: 880-6474-101

Date Collected: 09/23/21 08:40

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		09/28/21 13:22	10/02/21 02:41	1
Toluene	<0.00199	U F2 F1	0.00199	mg/Kg		09/28/21 13:22	10/02/21 02:41	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		09/28/21 13:22	10/02/21 02:41	1
m,p-Xylenes	<0.00398	U F2 F1	0.00398	mg/Kg		09/28/21 13:22	10/02/21 02:41	1
o-Xylene	<0.00199	U F2 F1	0.00199	mg/Kg		09/28/21 13:22	10/02/21 02:41	1
Xylenes, Total	<0.00398	U F2 F1	0.00398	mg/Kg		09/28/21 13:22	10/02/21 02:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			09/28/21 13:22	10/02/21 02:41	1
1,4-Difluorobenzene (Surr)	76		70 - 130			09/28/21 13:22	10/02/21 02:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/28/21 21:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8	mg/Kg		09/28/21 09:35	09/28/21 21:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/28/21 21:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			09/28/21 09:35	09/28/21 21:03	1
o-Terphenyl (Surr)	83		70 - 130			09/28/21 09:35	09/28/21 21:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	741		5.05	mg/Kg			10/01/21 04:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-568

Lab Sample ID: 880-6474-102

Date Collected: 09/23/21 08:42

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 03:01	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 03:01	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 03:01	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 03:01	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 03:01	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/28/21 13:22	10/02/21 03:01	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/28/21 13:22	10/02/21 03:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/28/21 22:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/28/21 22:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/28/21 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	09/28/21 09:35	09/28/21 22:10	1
o-Terphenyl (Surr)	94		70 - 130	09/28/21 09:35	09/28/21 22:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357		4.98	mg/Kg			10/01/21 04:12	1

Client Sample ID: C-569

Lab Sample ID: 880-6474-103

Date Collected: 09/23/21 08:44

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:22	10/02/21 03:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:22	10/02/21 03:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:22	10/02/21 03:21	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:22	10/02/21 03:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:22	10/02/21 03:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:22	10/02/21 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	09/28/21 13:22	10/02/21 03:21	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/28/21 13:22	10/02/21 03:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-569

Lab Sample ID: 880-6474-103

Date Collected: 09/23/21 08:44

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/28/21 22:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/28/21 22:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/28/21 22:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			09/28/21 09:35	09/28/21 22:33	1
o-Terphenyl (Surr)	80		70 - 130			09/28/21 09:35	09/28/21 22:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	369		4.99	mg/Kg			10/01/21 04:18	1

Client Sample ID: C-570

Lab Sample ID: 880-6474-104

Date Collected: 09/23/21 08:46

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 03:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 03:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 03:42	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:22	10/02/21 03:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 03:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:22	10/02/21 03:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			09/28/21 13:22	10/02/21 03:42	1
1,4-Difluorobenzene (Surr)	81		70 - 130			09/28/21 13:22	10/02/21 03:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/28/21 22:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/28/21 22:55	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-570

Lab Sample ID: 880-6474-104

Date Collected: 09/23/21 08:46

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/28/21 22:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			09/28/21 09:35	09/28/21 22:55	1
o-Terphenyl (Surr)	83		70 - 130			09/28/21 09:35	09/28/21 22:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	294		5.00	mg/Kg			10/01/21 04:24	1

Client Sample ID: C-571

Lab Sample ID: 880-6474-105

Date Collected: 09/23/21 08:48

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 04:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 04:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 04:02	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:22	10/02/21 04:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 04:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:22	10/02/21 04:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			09/28/21 13:22	10/02/21 04:02	1
1,4-Difluorobenzene (Surr)	95		70 - 130			09/28/21 13:22	10/02/21 04:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/28/21 23:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/28/21 23:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/28/21 23:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			09/28/21 09:35	09/28/21 23:17	1
o-Terphenyl (Surr)	80		70 - 130			09/28/21 09:35	09/28/21 23:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	651		4.95	mg/Kg			10/01/21 04:42	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-572

Lab Sample ID: 880-6474-106

Date Collected: 09/23/21 08:50

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:22	10/02/21 04:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:22	10/02/21 04:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:22	10/02/21 04:23	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/28/21 13:22	10/02/21 04:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:22	10/02/21 04:23	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/28/21 13:22	10/02/21 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	09/28/21 13:22	10/02/21 04:23	1
1,4-Difluorobenzene (Surr)	61	S1-	70 - 130	09/28/21 13:22	10/02/21 04:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/28/21 23:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/28/21 23:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/28/21 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130	09/28/21 09:35	09/28/21 23:40	1
o-Terphenyl (Surr)	82		70 - 130	09/28/21 09:35	09/28/21 23:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279		4.97	mg/Kg			10/01/21 04:49	1

Client Sample ID: C-573

Lab Sample ID: 880-6474-107

Date Collected: 09/23/21 08:52

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 04:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 04:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 04:43	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 04:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 04:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 04:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/28/21 13:22	10/02/21 04:43	1
1,4-Difluorobenzene (Surr)	91		70 - 130	09/28/21 13:22	10/02/21 04:43	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-573

Lab Sample ID: 880-6474-107

Date Collected: 09/23/21 08:52

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 00:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 00:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 00:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			09/28/21 09:35	09/29/21 00:02	1
o-Terphenyl (Surr)	79		70 - 130			09/28/21 09:35	09/29/21 00:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	300		5.05	mg/Kg			10/01/21 05:07	1

Client Sample ID: C-574

Lab Sample ID: 880-6474-108

Date Collected: 09/23/21 08:54

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:22	10/02/21 05:04	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:22	10/02/21 05:04	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:22	10/02/21 05:04	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/28/21 13:22	10/02/21 05:04	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:22	10/02/21 05:04	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/28/21 13:22	10/02/21 05:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			09/28/21 13:22	10/02/21 05:04	1
1,4-Difluorobenzene (Surr)	73		70 - 130			09/28/21 13:22	10/02/21 05:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 00:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 00:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-574

Lab Sample ID: 880-6474-108

Date Collected: 09/23/21 08:54

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 00:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			09/28/21 09:35	09/29/21 00:25	1
o-Terphenyl (Surr)	86		70 - 130			09/28/21 09:35	09/29/21 00:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		4.97	mg/Kg			10/01/21 05:13	1

Client Sample ID: C-575

Lab Sample ID: 880-6474-109

Date Collected: 09/23/21 08:56

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:22	10/02/21 05:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:22	10/02/21 05:24	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:22	10/02/21 05:24	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:22	10/02/21 05:24	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:22	10/02/21 05:24	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:22	10/02/21 05:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			09/28/21 13:22	10/02/21 05:24	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/28/21 13:22	10/02/21 05:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/29/21 00:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/29/21 00:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/29/21 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			09/28/21 09:35	09/29/21 00:47	1
o-Terphenyl (Surr)	97		70 - 130			09/28/21 09:35	09/29/21 00:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	316		4.95	mg/Kg			10/01/21 05:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-576

Lab Sample ID: 880-6474-110

Date Collected: 09/23/21 08:58

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 05:44	1
Toluene	0.00450		0.00200	mg/Kg		09/28/21 13:22	10/02/21 05:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 05:44	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:22	10/02/21 05:44	1
o-Xylene	0.00303		0.00200	mg/Kg		09/28/21 13:22	10/02/21 05:44	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:22	10/02/21 05:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	09/28/21 13:22	10/02/21 05:44	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/28/21 13:22	10/02/21 05:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00753		0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 01:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 01:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	09/28/21 09:35	09/29/21 01:10	1
o-Terphenyl (Surr)	103		70 - 130	09/28/21 09:35	09/29/21 01:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	646		4.98	mg/Kg			10/01/21 08:41	1

Client Sample ID: C-578

Lab Sample ID: 880-6474-111

Date Collected: 09/23/21 09:00

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 07:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 07:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 07:34	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 07:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 07:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 07:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	09/28/21 13:22	10/02/21 07:34	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/28/21 13:22	10/02/21 07:34	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-578

Lab Sample ID: 880-6474-111

Date Collected: 09/23/21 09:00

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 01:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 01:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 01:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			09/28/21 09:35	09/29/21 01:55	1
o-Terphenyl (Surr)	79		70 - 130			09/28/21 09:35	09/29/21 01:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	647		5.01	mg/Kg			10/01/21 08:58	1

Client Sample ID: C-579

Lab Sample ID: 880-6474-112

Date Collected: 09/23/21 09:02

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 07:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 07:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 07:54	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 07:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 07:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 07:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130			09/28/21 13:22	10/02/21 07:54	1
1,4-Difluorobenzene (Surr)	81		70 - 130			09/28/21 13:22	10/02/21 07:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 02:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 02:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-579

Lab Sample ID: 880-6474-112

Date Collected: 09/23/21 09:02

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 02:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			09/28/21 09:35	09/29/21 02:17	1
o-Terphenyl (Surr)	102		70 - 130			09/28/21 09:35	09/29/21 02:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	970		4.97	mg/Kg			10/01/21 09:04	1

Client Sample ID: C-580

Lab Sample ID: 880-6474-113

Date Collected: 09/23/21 09:04

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:22	10/02/21 08:15	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:22	10/02/21 08:15	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:22	10/02/21 08:15	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:22	10/02/21 08:15	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:22	10/02/21 08:15	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:22	10/02/21 08:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130			09/28/21 13:22	10/02/21 08:15	1
1,4-Difluorobenzene (Surr)	114		70 - 130			09/28/21 13:22	10/02/21 08:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 02:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 02:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:35	09/29/21 02:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			09/28/21 09:35	09/29/21 02:39	1
o-Terphenyl (Surr)	76		70 - 130			09/28/21 09:35	09/29/21 02:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	764		4.99	mg/Kg			10/01/21 09:09	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-581

Lab Sample ID: 880-6474-114

Date Collected: 09/23/21 09:06

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:22	10/02/21 08:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:22	10/02/21 08:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:22	10/02/21 08:35	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:22	10/02/21 08:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:22	10/02/21 08:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:22	10/02/21 08:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	09/28/21 13:22	10/02/21 08:35	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/28/21 13:22	10/02/21 08:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/29/21 03:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/29/21 03:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/29/21 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130	09/28/21 09:35	09/29/21 03:02	1
o-Terphenyl (Surr)	73		70 - 130	09/28/21 09:35	09/29/21 03:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	409		5.05	mg/Kg			10/01/21 09:15	1

Client Sample ID: C-582

Lab Sample ID: 880-6474-115

Date Collected: 09/23/21 09:08

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 08:56	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 08:56	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 08:56	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 08:56	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 08:56	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 08:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	09/28/21 13:22	10/02/21 08:56	1
1,4-Difluorobenzene (Surr)	114		70 - 130	09/28/21 13:22	10/02/21 08:56	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-582

Lab Sample ID: 880-6474-115

Date Collected: 09/23/21 09:08

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 03:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 03:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 03:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			09/28/21 09:35	09/29/21 03:24	1
o-Terphenyl (Surr)	79		70 - 130			09/28/21 09:35	09/29/21 03:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	393		4.98	mg/Kg			10/01/21 09:32	1

Client Sample ID: C-583

Lab Sample ID: 880-6474-116

Date Collected: 09/23/21 09:10

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 09:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 09:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 09:16	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:22	10/02/21 09:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 09:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:22	10/02/21 09:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			09/28/21 13:22	10/02/21 09:16	1
1,4-Difluorobenzene (Surr)	90		70 - 130			09/28/21 13:22	10/02/21 09:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 03:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 03:47	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-583

Lab Sample ID: 880-6474-116

Date Collected: 09/23/21 09:10

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			09/28/21 09:35	09/29/21 03:47	1
o-Terphenyl (Surr)	78		70 - 130			09/28/21 09:35	09/29/21 03:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		4.95	mg/Kg			10/01/21 09:38	1

Client Sample ID: C-584

Lab Sample ID: 880-6474-117

Date Collected: 09/23/21 09:12

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 09:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 09:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 09:36	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:22	10/02/21 09:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 09:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:22	10/02/21 09:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			09/28/21 13:22	10/02/21 09:36	1
1,4-Difluorobenzene (Surr)	96		70 - 130			09/28/21 13:22	10/02/21 09:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/29/21 04:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/29/21 04:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/29/21 04:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			09/28/21 09:35	09/29/21 04:09	1
o-Terphenyl (Surr)	77		70 - 130			09/28/21 09:35	09/29/21 04:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		4.97	mg/Kg			10/01/21 09:43	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-585

Lab Sample ID: 880-6474-118

Date Collected: 09/23/21 09:14

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:22	10/02/21 09:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:22	10/02/21 09:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:22	10/02/21 09:57	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:22	10/02/21 09:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:22	10/02/21 09:57	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:22	10/02/21 09:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/28/21 13:22	10/02/21 09:57	1
1,4-Difluorobenzene (Surr)	88		70 - 130	09/28/21 13:22	10/02/21 09:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 04:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 04:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130	09/28/21 09:35	09/29/21 04:31	1
o-Terphenyl (Surr)	81		70 - 130	09/28/21 09:35	09/29/21 04:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	543		4.99	mg/Kg			10/01/21 09:49	1

Client Sample ID: C-586

Lab Sample ID: 880-6474-119

Date Collected: 09/23/21 09:16

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 10:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 10:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 10:17	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 10:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 10:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 10:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/28/21 13:22	10/02/21 10:17	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/28/21 13:22	10/02/21 10:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-586

Lab Sample ID: 880-6474-119

Date Collected: 09/23/21 09:16

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/29/21 04:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/29/21 04:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 09:35	09/29/21 04:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			09/28/21 09:35	09/29/21 04:53	1
o-Terphenyl (Surr)	102		70 - 130			09/28/21 09:35	09/29/21 04:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.03	mg/Kg			10/01/21 09:54	1

Client Sample ID: C-587

Lab Sample ID: 880-6474-120

Date Collected: 09/23/21 09:18

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 10:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 10:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 10:38	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 10:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:22	10/02/21 10:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:22	10/02/21 10:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130			09/28/21 13:22	10/02/21 10:38	1
1,4-Difluorobenzene (Surr)	83		70 - 130			09/28/21 13:22	10/02/21 10:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 05:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 05:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-587

Lab Sample ID: 880-6474-120

Date Collected: 09/23/21 09:18

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/29/21 05:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			09/28/21 09:35	09/29/21 05:14	1
o-Terphenyl (Surr)	102		70 - 130			09/28/21 09:35	09/29/21 05:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		5.00	mg/Kg			10/01/21 10:00	1

Client Sample ID: C-588

Lab Sample ID: 880-6474-121

Date Collected: 09/23/21 09:20

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200	mg/Kg		09/28/21 13:25	10/01/21 23:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/01/21 23:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/01/21 23:53	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:25	10/01/21 23:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/01/21 23:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:25	10/01/21 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			09/28/21 13:25	10/01/21 23:53	1
1,4-Difluorobenzene (Surr)	77		70 - 130			09/28/21 13:25	10/01/21 23:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1 F2	49.8	mg/Kg		09/28/21 09:53	09/28/21 21:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/28/21 21:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/28/21 21:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			09/28/21 09:53	09/28/21 21:03	1
o-Terphenyl (Surr)	102		70 - 130			09/28/21 09:53	09/28/21 21:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		4.96	mg/Kg			10/01/21 10:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-589

Lab Sample ID: 880-6474-122

Date Collected: 09/23/21 09:22

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 00:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 00:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 00:13	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:25	10/02/21 00:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 00:13	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:25	10/02/21 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/28/21 13:25	10/02/21 00:13	1
1,4-Difluorobenzene (Surr)	80		70 - 130	09/28/21 13:25	10/02/21 00:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/28/21 22:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/28/21 22:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/28/21 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	34	S1-	70 - 130	09/28/21 09:53	09/28/21 22:10	1
o-Terphenyl (Surr)	28	S1-	70 - 130	09/28/21 09:53	09/28/21 22:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	867		4.98	mg/Kg			10/01/21 10:22	1

Client Sample ID: C-590

Lab Sample ID: 880-6474-123

Date Collected: 09/23/21 09:24

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 00:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 00:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 00:34	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:25	10/02/21 00:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 00:34	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:25	10/02/21 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	09/28/21 13:25	10/02/21 00:34	1
1,4-Difluorobenzene (Surr)	73		70 - 130	09/28/21 13:25	10/02/21 00:34	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-590

Lab Sample ID: 880-6474-123

Date Collected: 09/23/21 09:24

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/28/21 22:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/28/21 22:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/28/21 22:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	43	S1-	70 - 130			09/28/21 09:53	09/28/21 22:33	1
o-Terphenyl (Surr)	42	S1-	70 - 130			09/28/21 09:53	09/28/21 22:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		5.00	mg/Kg			10/01/21 10:39	1

Client Sample ID: C-591

Lab Sample ID: 880-6474-124

Date Collected: 09/23/21 09:26

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 00:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 00:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 00:54	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:25	10/02/21 00:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 00:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:25	10/02/21 00:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			09/28/21 13:25	10/02/21 00:54	1
1,4-Difluorobenzene (Surr)	76		70 - 130			09/28/21 13:25	10/02/21 00:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/28/21 22:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/28/21 22:55	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-591

Lab Sample ID: 880-6474-124

Date Collected: 09/23/21 09:26

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/28/21 22:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			09/28/21 09:53	09/28/21 22:55	1
o-Terphenyl (Surr)	96		70 - 130			09/28/21 09:53	09/28/21 22:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	514	F1	5.05	mg/Kg			09/30/21 22:26	1

Client Sample ID: C-592

Lab Sample ID: 880-6474-125

Date Collected: 09/23/21 09:28

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 01:14	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 01:14	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 01:14	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/28/21 13:25	10/02/21 01:14	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 01:14	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/28/21 13:25	10/02/21 01:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130			09/28/21 13:25	10/02/21 01:14	1
1,4-Difluorobenzene (Surr)	77		70 - 130			09/28/21 13:25	10/02/21 01:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/28/21 23:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/28/21 23:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/28/21 23:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	41	S1-	70 - 130			09/28/21 09:53	09/28/21 23:17	1
o-Terphenyl (Surr)	38	S1-	70 - 130			09/28/21 09:53	09/28/21 23:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1440		24.9	mg/Kg			09/30/21 22:43	5

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-593

Lab Sample ID: 880-6474-126

Date Collected: 09/23/21 09:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 01:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 01:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 01:35	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:25	10/02/21 01:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 01:35	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:25	10/02/21 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	09/28/21 13:25	10/02/21 01:35	1
1,4-Difluorobenzene (Surr)	73		70 - 130	09/28/21 13:25	10/02/21 01:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/28/21 23:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/28/21 23:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/28/21 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	58	S1-	70 - 130	09/28/21 09:53	09/28/21 23:40	1
o-Terphenyl (Surr)	60	S1-	70 - 130	09/28/21 09:53	09/28/21 23:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		25.0	mg/Kg			09/30/21 22:49	5

Client Sample ID: C-594

Lab Sample ID: 880-6474-127

Date Collected: 09/23/21 09:32

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:25	10/02/21 01:55	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:25	10/02/21 01:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:25	10/02/21 01:55	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:25	10/02/21 01:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:25	10/02/21 01:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:25	10/02/21 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	09/28/21 13:25	10/02/21 01:55	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/28/21 13:25	10/02/21 01:55	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-594

Lab Sample ID: 880-6474-127

Date Collected: 09/23/21 09:32

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 00:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 00:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 00:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	27	S1-	70 - 130			09/28/21 09:53	09/29/21 00:02	1
o-Terphenyl (Surr)	20	S1-	70 - 130			09/28/21 09:53	09/29/21 00:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1960		24.8	mg/Kg			09/30/21 22:54	5

Client Sample ID: C-595

Lab Sample ID: 880-6474-128

Date Collected: 09/23/21 09:34

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:25	10/02/21 02:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:25	10/02/21 02:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:25	10/02/21 02:16	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:25	10/02/21 02:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:25	10/02/21 02:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:25	10/02/21 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			09/28/21 13:25	10/02/21 02:16	1
1,4-Difluorobenzene (Surr)	78		70 - 130			09/28/21 13:25	10/02/21 02:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 00:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 00:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-595

Lab Sample ID: 880-6474-128

Date Collected: 09/23/21 09:34

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 00:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			09/28/21 09:53	09/29/21 00:25	1
o-Terphenyl (Surr)	107		70 - 130			09/28/21 09:53	09/29/21 00:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		5.00	mg/Kg			09/30/21 23:00	1

Client Sample ID: C-596

Lab Sample ID: 880-6474-129

Date Collected: 09/23/21 09:36

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 02:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 02:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 02:36	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:25	10/02/21 02:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 02:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:25	10/02/21 02:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			09/28/21 13:25	10/02/21 02:36	1
1,4-Difluorobenzene (Surr)	74		70 - 130			09/28/21 13:25	10/02/21 02:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/29/21 00:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/29/21 00:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/29/21 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/28/21 09:53	09/29/21 00:47	1
o-Terphenyl (Surr)	101		70 - 130			09/28/21 09:53	09/29/21 00:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	240		4.97	mg/Kg			09/30/21 23:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-597

Lab Sample ID: 880-6474-130

Date Collected: 09/23/21 09:38

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 02:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 02:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 02:57	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:25	10/02/21 02:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 02:57	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:25	10/02/21 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	09/28/21 13:25	10/02/21 02:57	1
1,4-Difluorobenzene (Surr)	72		70 - 130	09/28/21 13:25	10/02/21 02:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 01:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 01:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	30	S1-	70 - 130	09/28/21 09:53	09/29/21 01:10	1
o-Terphenyl (Surr)	22	S1-	70 - 130	09/28/21 09:53	09/29/21 01:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2020		24.8	mg/Kg			09/30/21 23:23	5

Client Sample ID: C-598

Lab Sample ID: 880-6474-131

Date Collected: 09/23/21 09:40

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 04:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 04:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 04:19	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:25	10/02/21 04:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 04:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:25	10/02/21 04:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	09/28/21 13:25	10/02/21 04:19	1
1,4-Difluorobenzene (Surr)	75		70 - 130	09/28/21 13:25	10/02/21 04:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-598

Lab Sample ID: 880-6474-131

Date Collected: 09/23/21 09:40

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 01:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 01:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 01:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	50	S1-	70 - 130			09/28/21 09:53	09/29/21 01:55	1
o-Terphenyl (Surr)	49	S1-	70 - 130			09/28/21 09:53	09/29/21 01:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2270		24.8	mg/Kg			09/30/21 23:29	5

Client Sample ID: C-599

Lab Sample ID: 880-6474-132

Date Collected: 09/23/21 09:42

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 04:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 04:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 04:39	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:25	10/02/21 04:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 04:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:25	10/02/21 04:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			09/28/21 13:25	10/02/21 04:39	1
1,4-Difluorobenzene (Surr)	75		70 - 130			09/28/21 13:25	10/02/21 04:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 02:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 02:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-599

Lab Sample ID: 880-6474-132

Date Collected: 09/23/21 09:42

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 02:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/28/21 09:53	09/29/21 02:17	1
o-Terphenyl (Surr)	101		70 - 130			09/28/21 09:53	09/29/21 02:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1490		25.2	mg/Kg			09/30/21 23:34	5

Client Sample ID: C-600

Lab Sample ID: 880-6474-133

Date Collected: 09/23/21 09:44

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 05:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 05:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 05:00	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:25	10/02/21 05:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 05:00	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:25	10/02/21 05:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			09/28/21 13:25	10/02/21 05:00	1
1,4-Difluorobenzene (Surr)	71		70 - 130			09/28/21 13:25	10/02/21 05:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 02:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 02:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 09:53	09/29/21 02:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			09/28/21 09:53	09/29/21 02:39	1
o-Terphenyl (Surr)	82		70 - 130			09/28/21 09:53	09/29/21 02:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	759		5.02	mg/Kg			09/30/21 23:40	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-601

Lab Sample ID: 880-6474-134

Date Collected: 09/23/21 09:46

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 05:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 05:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 05:20	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:25	10/02/21 05:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 05:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:25	10/02/21 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	09/28/21 13:25	10/02/21 05:20	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/28/21 13:25	10/02/21 05:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/29/21 03:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/29/21 03:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/29/21 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130	09/28/21 09:53	09/29/21 03:02	1
o-Terphenyl (Surr)	76		70 - 130	09/28/21 09:53	09/29/21 03:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1190		4.99	mg/Kg			09/30/21 23:46	1

Client Sample ID: C-602

Lab Sample ID: 880-6474-135

Date Collected: 09/23/21 09:48

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:25	10/02/21 05:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:25	10/02/21 05:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:25	10/02/21 05:41	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:25	10/02/21 05:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:25	10/02/21 05:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:25	10/02/21 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	09/28/21 13:25	10/02/21 05:41	1
1,4-Difluorobenzene (Surr)	78		70 - 130	09/28/21 13:25	10/02/21 05:41	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-602

Lab Sample ID: 880-6474-135

Date Collected: 09/23/21 09:48

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 03:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 03:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 03:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	65	S1-	70 - 130			09/28/21 09:53	09/29/21 03:24	1
o-Terphenyl (Surr)	66	S1-	70 - 130			09/28/21 09:53	09/29/21 03:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	241		25.0	mg/Kg			10/01/21 00:03	5

Client Sample ID: C-603

Lab Sample ID: 880-6474-136

Date Collected: 09/23/21 09:50

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 06:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 06:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 06:01	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:25	10/02/21 06:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 06:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:25	10/02/21 06:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			09/28/21 13:25	10/02/21 06:01	1
1,4-Difluorobenzene (Surr)	75		70 - 130			09/28/21 13:25	10/02/21 06:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 03:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 03:47	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-603

Lab Sample ID: 880-6474-136

Date Collected: 09/23/21 09:50

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	59	S1-	70 - 130			09/28/21 09:53	09/29/21 03:47	1
o-Terphenyl (Surr)	59	S1-	70 - 130			09/28/21 09:53	09/29/21 03:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		25.1	mg/Kg			10/01/21 00:09	5

Client Sample ID: C-604

Lab Sample ID: 880-6474-137

Date Collected: 09/23/21 09:52

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 06:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 06:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 06:21	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:25	10/02/21 06:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 06:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:25	10/02/21 06:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130			09/28/21 13:25	10/02/21 06:21	1
1,4-Difluorobenzene (Surr)	77		70 - 130			09/28/21 13:25	10/02/21 06:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/29/21 04:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/29/21 04:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/29/21 04:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	3	S1-	70 - 130			09/28/21 09:53	09/29/21 04:09	1
o-Terphenyl (Surr)	0.4	S1-	70 - 130			09/28/21 09:53	09/29/21 04:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1460		25.0	mg/Kg			10/01/21 00:26	5

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-605

Lab Sample ID: 880-6474-138

Date Collected: 09/23/21 09:54

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 06:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 06:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 06:42	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:25	10/02/21 06:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:25	10/02/21 06:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:25	10/02/21 06:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	09/28/21 13:25	10/02/21 06:42	1
1,4-Difluorobenzene (Surr)	79		70 - 130	09/28/21 13:25	10/02/21 06:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 04:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 04:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	09/28/21 09:53	09/29/21 04:31	1
o-Terphenyl (Surr)	116		70 - 130	09/28/21 09:53	09/29/21 04:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	881		4.95	mg/Kg			10/01/21 00:32	1

Client Sample ID: C-606

Lab Sample ID: 880-6474-139

Date Collected: 09/23/21 09:56

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 07:02	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 07:02	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 07:02	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/28/21 13:25	10/02/21 07:02	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:25	10/02/21 07:02	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/28/21 13:25	10/02/21 07:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	09/28/21 13:25	10/02/21 07:02	1
1,4-Difluorobenzene (Surr)	78		70 - 130	09/28/21 13:25	10/02/21 07:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-606

Lab Sample ID: 880-6474-139

Date Collected: 09/23/21 09:56

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/29/21 04:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/29/21 04:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 09:53	09/29/21 04:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/28/21 09:53	09/29/21 04:53	1
o-Terphenyl (Surr)	103		70 - 130			09/28/21 09:53	09/29/21 04:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	542		4.96	mg/Kg			10/01/21 00:37	1

Client Sample ID: C-607

Lab Sample ID: 880-6474-140

Date Collected: 09/23/21 09:58

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 07:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 07:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 07:23	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:25	10/02/21 07:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/02/21 07:23	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:25	10/02/21 07:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			09/28/21 13:25	10/02/21 07:23	1
1,4-Difluorobenzene (Surr)	78		70 - 130			09/28/21 13:25	10/02/21 07:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 05:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 05:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-607

Lab Sample ID: 880-6474-140

Date Collected: 09/23/21 09:58

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/29/21 05:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130			09/28/21 09:53	09/29/21 05:14	1
o-Terphenyl (Surr)	119		70 - 130			09/28/21 09:53	09/29/21 05:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	609		5.00	mg/Kg			10/01/21 00:43	1

Client Sample ID: C-607-2

Lab Sample ID: 880-6474-141

Date Collected: 09/23/21 10:00

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- F1 *1	0.00200	mg/Kg		09/28/21 13:27	10/02/21 00:05	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		09/28/21 13:27	10/02/21 00:05	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/Kg		09/28/21 13:27	10/02/21 00:05	1
m,p-Xylenes	<0.00401	U F1	0.00401	mg/Kg		09/28/21 13:27	10/02/21 00:05	1
o-Xylene	<0.00200	U F1	0.00200	mg/Kg		09/28/21 13:27	10/02/21 00:05	1
Xylenes, Total	<0.00401	U F1	0.00401	mg/Kg		09/28/21 13:27	10/02/21 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			09/28/21 13:27	10/02/21 00:05	1
1,4-Difluorobenzene (Surr)	108		70 - 130			09/28/21 13:27	10/02/21 00:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8	mg/Kg		09/28/21 10:43	09/29/21 11:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8	mg/Kg		09/28/21 10:43	09/29/21 11:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 11:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			09/28/21 10:43	09/29/21 11:17	1
o-Terphenyl (Surr)	81		70 - 130			09/28/21 10:43	09/29/21 11:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	613		4.99	mg/Kg			10/01/21 00:49	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-608

Lab Sample ID: 880-6474-142

Date Collected: 09/23/21 10:02

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U * - *1	0.00200	mg/Kg		09/28/21 13:27	10/02/21 00:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 00:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 00:26	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:27	10/02/21 00:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 00:26	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:27	10/02/21 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/28/21 13:27	10/02/21 00:26	1
1,4-Difluorobenzene (Surr)	84		70 - 130	09/28/21 13:27	10/02/21 00:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 12:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 12:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130	09/28/21 10:43	09/29/21 12:22	1
o-Terphenyl (Surr)	79		70 - 130	09/28/21 10:43	09/29/21 12:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	386		5.00	mg/Kg			10/01/21 00:55	1

Client Sample ID: C-609

Lab Sample ID: 880-6474-143

Date Collected: 09/23/21 10:04

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U * - *1	0.00198	mg/Kg		09/28/21 13:27	10/02/21 00:46	1
Toluene	0.00221		0.00198	mg/Kg		09/28/21 13:27	10/02/21 00:46	1
Ethylbenzene	0.00398		0.00198	mg/Kg		09/28/21 13:27	10/02/21 00:46	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/28/21 13:27	10/02/21 00:46	1
o-Xylene	0.00379		0.00198	mg/Kg		09/28/21 13:27	10/02/21 00:46	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/28/21 13:27	10/02/21 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/28/21 13:27	10/02/21 00:46	1
1,4-Difluorobenzene (Surr)	73		70 - 130	09/28/21 13:27	10/02/21 00:46	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-609

Lab Sample ID: 880-6474-143

Date Collected: 09/23/21 10:04

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00998		0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 12:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 12:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			09/28/21 10:43	09/29/21 12:44	1
o-Terphenyl (Surr)	81		70 - 130			09/28/21 10:43	09/29/21 12:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	477		5.04	mg/Kg			10/01/21 01:00	1

Client Sample ID: C-610

Lab Sample ID: 880-6474-144

Date Collected: 09/23/21 10:06

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U * - *1	0.00202	mg/Kg		09/28/21 13:27	10/02/21 01:07	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:27	10/02/21 01:07	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:27	10/02/21 01:07	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:27	10/02/21 01:07	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:27	10/02/21 01:07	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:27	10/02/21 01:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			09/28/21 13:27	10/02/21 01:07	1
1,4-Difluorobenzene (Surr)	97		70 - 130			09/28/21 13:27	10/02/21 01:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 13:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 13:06	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-610

Lab Sample ID: 880-6474-144

Date Collected: 09/23/21 10:06

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 13:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			09/28/21 10:43	09/29/21 13:06	1
o-Terphenyl (Surr)	80		70 - 130			09/28/21 10:43	09/29/21 13:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	438		5.00	mg/Kg			10/01/21 12:54	1

Client Sample ID: C-611

Lab Sample ID: 880-6474-145

Date Collected: 09/23/21 10:08

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		09/28/21 13:27	10/02/21 01:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 01:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 01:28	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:27	10/02/21 01:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 01:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:27	10/02/21 01:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			09/28/21 13:27	10/02/21 01:28	1
1,4-Difluorobenzene (Surr)	99		70 - 130			09/28/21 13:27	10/02/21 01:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 13:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 13:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130			09/28/21 10:43	09/29/21 13:28	1
o-Terphenyl (Surr)	75		70 - 130			09/28/21 10:43	09/29/21 13:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	587		4.99	mg/Kg			10/01/21 13:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-612

Lab Sample ID: 880-6474-146

Date Collected: 09/23/21 10:10

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		09/28/21 13:27	10/02/21 01:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 01:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 01:49	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:27	10/02/21 01:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 01:49	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:27	10/02/21 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/28/21 13:27	10/02/21 01:49	1
1,4-Difluorobenzene (Surr)	77		70 - 130	09/28/21 13:27	10/02/21 01:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 13:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 13:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130	09/28/21 10:43	09/29/21 13:49	1
o-Terphenyl (Surr)	87		70 - 130	09/28/21 10:43	09/29/21 13:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.4		4.98	mg/Kg			10/01/21 13:20	1

Client Sample ID: C-613

Lab Sample ID: 880-6474-147

Date Collected: 09/23/21 10:12

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	mg/Kg		09/28/21 13:27	10/02/21 02:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:27	10/02/21 02:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:27	10/02/21 02:09	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:27	10/02/21 02:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:27	10/02/21 02:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:27	10/02/21 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/28/21 13:27	10/02/21 02:09	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	09/28/21 13:27	10/02/21 02:09	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-613

Lab Sample ID: 880-6474-147

Date Collected: 09/23/21 10:12

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 14:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 14:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 14:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			09/28/21 10:43	09/29/21 14:11	1
o-Terphenyl (Surr)	84		70 - 130			09/28/21 10:43	09/29/21 14:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		4.95	mg/Kg			10/01/21 13:26	1

Client Sample ID: C-614

Lab Sample ID: 880-6474-148

Date Collected: 09/23/21 10:14

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U * - *1	0.00199	mg/Kg		09/28/21 13:27	10/02/21 02:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 02:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 02:30	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:27	10/02/21 02:30	1
o-Xylene	0.00702		0.00199	mg/Kg		09/28/21 13:27	10/02/21 02:30	1
Xylenes, Total	0.00702		0.00398	mg/Kg		09/28/21 13:27	10/02/21 02:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			09/28/21 13:27	10/02/21 02:30	1
1,4-Difluorobenzene (Surr)	91		70 - 130			09/28/21 13:27	10/02/21 02:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00702		0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 14:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 14:33	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-614

Lab Sample ID: 880-6474-148

Date Collected: 09/23/21 10:14

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			09/28/21 10:43	09/29/21 14:33	1
o-Terphenyl (Surr)	87		70 - 130			09/28/21 10:43	09/29/21 14:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		4.99	mg/Kg			10/01/21 13:33	1

Client Sample ID: C-615

Lab Sample ID: 880-6474-149

Date Collected: 09/23/21 10:16

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		09/28/21 13:27	10/02/21 02:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 02:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 02:51	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:27	10/02/21 02:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 02:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:27	10/02/21 02:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			09/28/21 13:27	10/02/21 02:51	1
1,4-Difluorobenzene (Surr)	95		70 - 130			09/28/21 13:27	10/02/21 02:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 14:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 14:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 14:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			09/28/21 10:43	09/29/21 14:55	1
o-Terphenyl (Surr)	83		70 - 130			09/28/21 10:43	09/29/21 14:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	456		5.04	mg/Kg			10/01/21 13:52	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-616

Lab Sample ID: 880-6474-150

Date Collected: 09/23/21 10:18

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		09/28/21 13:27	10/02/21 03:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 03:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 03:12	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:27	10/02/21 03:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 03:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:27	10/02/21 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/28/21 13:27	10/02/21 03:12	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/28/21 13:27	10/02/21 03:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 15:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 15:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130	09/28/21 10:43	09/29/21 15:17	1
o-Terphenyl (Surr)	79		70 - 130	09/28/21 10:43	09/29/21 15:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		5.00	mg/Kg			10/01/21 13:59	1

Client Sample ID: C-617

Lab Sample ID: 880-6474-151

Date Collected: 09/23/21 10:20

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		09/28/21 13:27	10/02/21 04:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 04:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 04:34	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:27	10/02/21 04:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 04:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:27	10/02/21 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/28/21 13:27	10/02/21 04:34	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/28/21 13:27	10/02/21 04:34	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-617

Lab Sample ID: 880-6474-151

Date Collected: 09/23/21 10:20

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/01/21 10:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 16:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 16:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 16:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			09/28/21 10:43	09/29/21 16:01	1
o-Terphenyl (Surr)	83		70 - 130			09/28/21 10:43	09/29/21 16:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	768		24.8	mg/Kg			10/01/21 16:22	5

Client Sample ID: C-618

Lab Sample ID: 880-6474-152

Date Collected: 09/23/21 10:22

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00293	* - *1	0.00202	mg/Kg		09/28/21 13:27	10/02/21 04:55	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:27	10/02/21 04:55	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:27	10/02/21 04:55	1
m,p-Xylenes	0.00453		0.00403	mg/Kg		09/28/21 13:27	10/02/21 04:55	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:27	10/02/21 04:55	1
Xylenes, Total	0.00453		0.00403	mg/Kg		09/28/21 13:27	10/02/21 04:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			09/28/21 13:27	10/02/21 04:55	1
1,4-Difluorobenzene (Surr)	91		70 - 130			09/28/21 13:27	10/02/21 04:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00746		0.00200	mg/Kg			10/01/21 10:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 16:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 16:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-618

Lab Sample ID: 880-6474-152

Date Collected: 09/23/21 10:22

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 16:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			09/28/21 10:43	09/29/21 16:23	1
o-Terphenyl (Surr)	82		70 - 130			09/28/21 10:43	09/29/21 16:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1260		4.97	mg/Kg			10/01/21 14:12	1

Client Sample ID: C-619

Lab Sample ID: 880-6474-153

Date Collected: 09/23/21 10:24

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	mg/Kg		09/28/21 13:27	10/02/21 05:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:27	10/02/21 05:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:27	10/02/21 05:16	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:27	10/02/21 05:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:27	10/02/21 05:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:27	10/02/21 05:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			09/28/21 13:27	10/02/21 05:16	1
1,4-Difluorobenzene (Surr)	119		70 - 130			09/28/21 13:27	10/02/21 05:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 16:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 16:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/21 10:43	09/29/21 16:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130			09/28/21 10:43	09/29/21 16:45	1
o-Terphenyl (Surr)	74		70 - 130			09/28/21 10:43	09/29/21 16:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		24.9	mg/Kg			10/01/21 14:18	5

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-620

Lab Sample ID: 880-6474-154

Date Collected: 09/23/21 10:26

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	mg/Kg		09/28/21 13:27	10/02/21 05:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:27	10/02/21 05:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:27	10/02/21 05:36	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:27	10/02/21 05:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:27	10/02/21 05:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:27	10/02/21 05:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	09/28/21 13:27	10/02/21 05:36	1
1,4-Difluorobenzene (Surr)	121		70 - 130	09/28/21 13:27	10/02/21 05:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 17:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 17:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130	09/28/21 10:43	09/29/21 17:07	1
o-Terphenyl (Surr)	82		70 - 130	09/28/21 10:43	09/29/21 17:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		4.95	mg/Kg			10/01/21 14:25	1

Client Sample ID: C-621

Lab Sample ID: 880-6474-155

Date Collected: 09/23/21 10:28

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		09/28/21 13:27	10/02/21 05:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 05:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 05:57	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:27	10/02/21 05:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 05:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:27	10/02/21 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/28/21 13:27	10/02/21 05:57	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/28/21 13:27	10/02/21 05:57	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-621

Lab Sample ID: 880-6474-155

Date Collected: 09/23/21 10:28

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 17:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 17:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 17:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			09/28/21 10:43	09/29/21 17:29	1
o-Terphenyl (Surr)	80		70 - 130			09/28/21 10:43	09/29/21 17:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1370		5.04	mg/Kg			10/01/21 14:44	1

Client Sample ID: C-622

Lab Sample ID: 880-6474-156

Date Collected: 09/23/21 10:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U * - *1	0.00202	mg/Kg		09/28/21 13:27	10/02/21 06:18	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:27	10/02/21 06:18	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:27	10/02/21 06:18	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:27	10/02/21 06:18	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:27	10/02/21 06:18	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:27	10/02/21 06:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			09/28/21 13:27	10/02/21 06:18	1
1,4-Difluorobenzene (Surr)	89		70 - 130			09/28/21 13:27	10/02/21 06:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 17:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 17:50	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-622

Lab Sample ID: 880-6474-156

Date Collected: 09/23/21 10:30

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 17:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			09/28/21 10:43	09/29/21 17:50	1
o-Terphenyl (Surr)	90		70 - 130			09/28/21 10:43	09/29/21 17:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		5.01	mg/Kg			10/01/21 14:50	1

Client Sample ID: C-623

Lab Sample ID: 880-6474-157

Date Collected: 09/23/21 10:32

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		09/28/21 13:27	10/02/21 06:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 06:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 06:38	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:27	10/02/21 06:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:27	10/02/21 06:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:27	10/02/21 06:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			09/28/21 13:27	10/02/21 06:38	1
1,4-Difluorobenzene (Surr)	103		70 - 130			09/28/21 13:27	10/02/21 06:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 18:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 18:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			09/28/21 10:43	09/29/21 18:12	1
o-Terphenyl (Surr)	90		70 - 130			09/28/21 10:43	09/29/21 18:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	374		5.00	mg/Kg			10/01/21 15:10	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-624

Lab Sample ID: 880-6474-158

Date Collected: 09/23/21 10:34

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		09/28/21 13:27	10/02/21 06:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 06:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 06:59	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:27	10/02/21 06:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 06:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:27	10/02/21 06:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/28/21 13:27	10/02/21 06:59	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/28/21 13:27	10/02/21 06:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 18:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 18:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130	09/28/21 10:43	09/29/21 18:33	1
o-Terphenyl (Surr)	88		70 - 130	09/28/21 10:43	09/29/21 18:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	458		5.02	mg/Kg			10/01/21 15:16	1

Client Sample ID: C-625

Lab Sample ID: 880-6474-159

Date Collected: 09/23/21 10:36

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	mg/Kg		09/28/21 13:27	10/02/21 07:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:27	10/02/21 07:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:27	10/02/21 07:20	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:27	10/02/21 07:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:27	10/02/21 07:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:27	10/02/21 07:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/28/21 13:27	10/02/21 07:20	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/28/21 13:27	10/02/21 07:20	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-625

Lab Sample ID: 880-6474-159

Date Collected: 09/23/21 10:36

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 18:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 18:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 10:43	09/29/21 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130			09/28/21 10:43	09/29/21 18:55	1
o-Terphenyl (Surr)	86		70 - 130			09/28/21 10:43	09/29/21 18:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	199		4.98	mg/Kg			10/01/21 15:23	1

Client Sample ID: C-626

Lab Sample ID: 880-6474-160

Date Collected: 09/23/21 10:38

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U * - *1	0.00200	mg/Kg		09/28/21 13:27	10/02/21 07:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 07:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 07:41	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:27	10/02/21 07:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/02/21 07:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:27	10/02/21 07:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			09/28/21 13:27	10/02/21 07:41	1
1,4-Difluorobenzene (Surr)	79		70 - 130			09/28/21 13:27	10/02/21 07:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 19:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 19:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-626

Lab Sample ID: 880-6474-160

Date Collected: 09/23/21 10:38

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 19:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			09/28/21 10:43	09/29/21 19:16	1
o-Terphenyl (Surr)	79		70 - 130			09/28/21 10:43	09/29/21 19:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		4.97	mg/Kg			10/01/21 15:29	1

Client Sample ID: C-627

Lab Sample ID: 880-6474-161

Date Collected: 09/23/21 10:40

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:08	09/29/21 18:55	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:08	09/29/21 18:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:08	09/29/21 18:55	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 13:08	09/29/21 18:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 13:08	09/29/21 18:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 13:08	09/29/21 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			09/28/21 13:08	09/29/21 18:55	1
1,4-Difluorobenzene (Surr)	97		70 - 130			09/28/21 13:08	09/29/21 18:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/28/21 03:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/28/21 03:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/28/21 03:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130			09/27/21 16:37	09/28/21 03:27	1
o-Terphenyl (Surr)	131	S1+	70 - 130			09/27/21 16:37	09/28/21 03:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.1		4.95	mg/Kg			10/01/21 15:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-628

Lab Sample ID: 880-6474-162

Date Collected: 09/23/21 10:42

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:08	09/29/21 19:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:08	09/29/21 19:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:08	09/29/21 19:15	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:08	09/29/21 19:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:08	09/29/21 19:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:08	09/29/21 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/28/21 13:08	09/29/21 19:15	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/28/21 13:08	09/29/21 19:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/28/21 03:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/28/21 03:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/28/21 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130	09/27/21 16:37	09/28/21 03:46	1
o-Terphenyl (Surr)	132	S1+	70 - 130	09/27/21 16:37	09/28/21 03:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.7		4.95	mg/Kg			10/01/21 15:42	1

Client Sample ID: C-629

Lab Sample ID: 880-6474-163

Date Collected: 09/23/21 10:44

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:08	09/29/21 19:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:08	09/29/21 19:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:08	09/29/21 19:36	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:08	09/29/21 19:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:08	09/29/21 19:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:08	09/29/21 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	09/28/21 13:08	09/29/21 19:36	1
1,4-Difluorobenzene (Surr)	71		70 - 130	09/28/21 13:08	09/29/21 19:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-629

Lab Sample ID: 880-6474-163

Date Collected: 09/23/21 10:44

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 16:37	09/28/21 04:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 16:37	09/28/21 04:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 16:37	09/28/21 04:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			09/27/21 16:37	09/28/21 04:06	1
o-Terphenyl (Surr)	134	S1+	70 - 130			09/27/21 16:37	09/28/21 04:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.3		5.00	mg/Kg			10/01/21 15:48	1

Client Sample ID: C-630

Lab Sample ID: 880-6474-164

Date Collected: 09/23/21 10:46

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:08	09/29/21 15:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:08	09/29/21 19:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:08	09/29/21 19:57	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:08	09/29/21 19:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:08	09/29/21 19:57	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:08	09/29/21 19:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			09/28/21 13:08	09/29/21 19:57	1
1,4-Difluorobenzene (Surr)	109		70 - 130			09/28/21 13:08	09/29/21 19:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/28/21 04:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/28/21 04:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-630

Lab Sample ID: 880-6474-164

Date Collected: 09/23/21 10:46

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/28/21 04:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/27/21 16:37	09/28/21 04:27	1
o-Terphenyl (Surr)	107		70 - 130			09/27/21 16:37	09/28/21 04:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	686	F1	5.00	mg/Kg			10/01/21 17:05	1

Client Sample ID: C-631

Lab Sample ID: 880-6474-165

Date Collected: 09/23/21 10:48

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:08	09/29/21 15:33	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:08	09/29/21 15:33	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:08	09/29/21 20:18	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/28/21 13:08	09/29/21 15:33	1
o-Xylene	0.219		0.00198	mg/Kg		09/28/21 13:08	09/29/21 15:33	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/28/21 13:08	09/29/21 20:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			09/28/21 13:08	09/29/21 20:18	1
1,4-Difluorobenzene (Surr)	73		70 - 130			09/28/21 13:08	09/29/21 20:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 16:37	09/28/21 04:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 16:37	09/28/21 04:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 16:37	09/28/21 04:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/27/21 16:37	09/28/21 04:47	1
o-Terphenyl (Surr)	104		70 - 130			09/27/21 16:37	09/28/21 04:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	781		5.01	mg/Kg			10/01/21 17:24	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-632

Lab Sample ID: 880-6474-166

Date Collected: 09/23/21 10:50

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:08	09/29/21 15:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:08	09/29/21 15:33	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:08	09/29/21 15:33	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:08	09/29/21 15:33	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:08	09/29/21 15:33	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:08	09/29/21 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/28/21 13:08	09/29/21 20:38	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/28/21 13:08	09/29/21 20:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 16:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/28/21 05:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/28/21 05:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/28/21 05:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	09/27/21 16:37	09/28/21 05:07	1
o-Terphenyl (Surr)	109		70 - 130	09/27/21 16:37	09/28/21 05:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	673		5.05	mg/Kg			10/01/21 17:30	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-6451-A-1-D MS	Matrix Spike	100	107
880-6451-A-1-E MSD	Matrix Spike Duplicate	106	65 S1-
880-6474-1	C-467	93	81
880-6474-1 MS	C-467	91	83
880-6474-1 MSD	C-467	109	108
880-6474-2	C-468	105	103
880-6474-3	C-469	105	92
880-6474-4	C-470	86	70
880-6474-5	C-471	88	72
880-6474-6	C-472	117	99
880-6474-7	C-473	107	97
880-6474-8	C-474	110	73
880-6474-9	C-475	129	106
880-6474-10	C-476	114	93
880-6474-11	C-477	97	81
880-6474-12	C-478	125	102
880-6474-13	C-479	111	102
880-6474-14	C-480	94	74
880-6474-15	C-481	93	84
880-6474-16	C-482	126	91
880-6474-17	C-483	91	85
880-6474-18	C-484	133 S1+	127
880-6474-19	C-485	122	102
880-6474-20	C-486	98	78
880-6474-21	C-487	105	79
880-6474-21 MS	C-487	80	96
880-6474-21 MSD	C-487	92	87
880-6474-22	C-488	100	91
880-6474-23	C-489	129	92
880-6474-24	C-490	103	94
880-6474-25	C-491	105	95
880-6474-26	C-492	97	90
880-6474-27	C-493	97	91
880-6474-28	C-494	93	78
880-6474-29	C-495	120	76
880-6474-30	C-496	111	101
880-6474-31	C-497	165 S1+	109
880-6474-32	C-498	116	102
880-6474-33	C-499	113	103
880-6474-34	C-500	114	103
880-6474-35	C-501	115	101
880-6474-36	C-502	121	105
880-6474-37	C-503	117	101
880-6474-38	C-504	106	88
880-6474-39	C-505	111	98
880-6474-40	C-506	106	95
880-6474-41	C-507	123	82
880-6474-41 MS	C-507	39 S1-	97
880-6474-41 MSD	C-507	134 S1+	17 S1-

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6474-1

Project/Site: Palmio Ast

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-6474-42	C-508	73	128
880-6474-43	C-509	123	106
880-6474-44	C-510	142 S1+	92
880-6474-45	C-511	125	89
880-6474-46	C-512	114	108
880-6474-47	C-513	131 S1+	93
880-6474-48	C-514	101	83
880-6474-49	C-514	100	109
880-6474-50	C-516	99	100
880-6474-51	C-517	137 S1+	116
880-6474-52	C-518	108	83
880-6474-53	C-519	84	98
880-6474-54	C-520	133 S1+	97
880-6474-55	C-521	103	82
880-6474-56	C-522	72	72
880-6474-57	C-523	80	78
880-6474-58	C-524	77	146 S1+
880-6474-59	C-525	75	63 S1-
880-6474-60	C-526	122	106
880-6474-61	C-527	122	88
880-6474-61 MS	C-527	116	87
880-6474-61 MSD	C-527	122	83
880-6474-62	C-528	132 S1+	84
880-6474-63	C-529	133 S1+	74
880-6474-64	C-531	110	81
880-6474-65	C-531	130	74
880-6474-66	C-532	108	80
880-6474-67	C-533	120	85
880-6474-68	C-534	107	87
880-6474-69	C-535	118	87
880-6474-70	C-536	114	85
880-6474-70	C-536	106	82
880-6474-71	C-537	153 S1+	79
880-6474-72	C-538	111	85
880-6474-73	C-539	125	82
880-6474-74	C-540	129	78
880-6474-75	C-541	130	77
880-6474-76	C-542	135 S1+	89
880-6474-77	C-543	122	81
880-6474-78	C-544	133 S1+	82
880-6474-79	C-545	104	62 S1-
880-6474-80	C-546	122	78
880-6474-81	C-547	82	93
880-6474-81 MS	C-547	83	94
880-6474-81 MSD	C-547	85	84
880-6474-82	C-548	98	111
880-6474-83	C-549	83	90
880-6474-84	C-550	122	107
880-6474-85	C-551	99	96
880-6474-86	C-552	95	99

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6474-1

Project/Site: Palmio Ast

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-6474-87	C-553	129	104
880-6474-88	C-554	120	70
880-6474-89	C-555	73	120
880-6474-90	C-556	116	95
880-6474-91	C-557	88	87
880-6474-92	C-558	91	89
880-6474-93	C-559	81	81
880-6474-94	C-560	85	82
880-6474-95	C-561	108	99
880-6474-96	C-562	97	96
880-6474-97	C-563	78	129
880-6474-98	C-564	124	90
880-6474-99	C-565	101	79
880-6474-100	C-566	93	93
880-6474-101	C-567	83	76
880-6474-101 MS	C-567	74	96
880-6474-101 MSD	C-567	116	16 S1-
880-6474-102	C-568	111	94
880-6474-103	C-569	131 S1+	104
880-6474-104	C-570	100	81
880-6474-105	C-571	132 S1+	95
880-6474-106	C-572	89	61 S1-
880-6474-107	C-573	108	91
880-6474-108	C-574	111	73
880-6474-109	C-575	110	102
880-6474-110	C-576	71	89
880-6474-111	C-578	134 S1+	106
880-6474-112	C-579	67 S1-	81
880-6474-113	C-580	74	114
880-6474-114	C-581	97	106
880-6474-115	C-582	91	114
880-6474-116	C-583	124	90
880-6474-117	C-584	119	96
880-6474-118	C-585	115	88
880-6474-119	C-586	102	99
880-6474-120	C-587	76	83
880-6474-121	C-588	109	77
880-6474-121 MS	C-588	134 S1+	66 S1-
880-6474-121 MSD	C-588	152 S1+	68 S1-
880-6474-122	C-589	124	80
880-6474-123	C-590	132 S1+	73
880-6474-124	C-591	130	76
880-6474-125	C-592	152 S1+	77
880-6474-126	C-593	134 S1+	73
880-6474-127	C-594	135 S1+	76
880-6474-128	C-595	132 S1+	78
880-6474-129	C-596	130	74
880-6474-130	C-597	132 S1+	72
880-6474-131	C-598	132 S1+	75
880-6474-132	C-599	135 S1+	75

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6474-1

Project/Site: Palmio Ast

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-6474-133	C-600	138 S1+	71
880-6474-134	C-601	141 S1+	76
880-6474-135	C-602	133 S1+	78
880-6474-136	C-603	123	75
880-6474-137	C-604	145 S1+	77
880-6474-138	C-605	152 S1+	79
880-6474-139	C-606	141 S1+	78
880-6474-140	C-607	127	78
880-6474-141	C-607-2	104	108
880-6474-141 MS	C-607-2	97	81
880-6474-141 MSD	C-607-2	106	100
880-6474-142	C-608	99	84
880-6474-143	C-609	111	73
880-6474-144	C-610	96	97
880-6474-145	C-611	107	99
880-6474-146	C-612	93	77
880-6474-147	C-613	93	68 S1-
880-6474-148	C-614	117	91
880-6474-149	C-615	97	95
880-6474-150	C-616	111	104
880-6474-151	C-617	102	93
880-6474-152	C-618	110	91
880-6474-153	C-619	114	119
880-6474-154	C-620	135 S1+	121
880-6474-155	C-621	104	108
880-6474-156	C-622	106	89
880-6474-157	C-623	87	103
880-6474-158	C-624	100	82
880-6474-159	C-625	117	81
880-6474-160	C-626	114	79
880-6474-161	C-627	94	97
880-6474-162	C-628	94	86
880-6474-163	C-629	97	71
880-6474-164	C-630	96	109
880-6474-165	C-631	104	73
880-6474-166	C-632	101	101
LCS 880-8517/1-A	Lab Control Sample	88	86
LCS 880-8518/1-A	Lab Control Sample	89	77
LCS 880-8519/1-A	Lab Control Sample	117	106
LCS 880-8520/1-A	Lab Control Sample	111	92
LCS 880-8521/1-A	Lab Control Sample	114	86
LCS 880-8522/1-A	Lab Control Sample	100	99
LCS 880-8523/1-A	Lab Control Sample	109	85
LCS 880-8524/1-A	Lab Control Sample	128	70
LCS 880-8526/1-A	Lab Control Sample	86	91
LCSD 880-8517/2-A	Lab Control Sample Dup	100	89
LCSD 880-8518/2-A	Lab Control Sample Dup	98	97
LCSD 880-8519/2-A	Lab Control Sample Dup	116	103
LCSD 880-8520/2-A	Lab Control Sample Dup	101	94
LCSD 880-8521/2-A	Lab Control Sample Dup	117	85

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6474-1

Project/Site: Palmio Ast

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCSD 880-8522/2-A	Lab Control Sample Dup	99	115
LCSD 880-8523/2-A	Lab Control Sample Dup	100	87
LCSD 880-8524/2-A	Lab Control Sample Dup	122	79
MB 880-8508/5-A	Method Blank	66 S1-	95
MB 880-8517/5-A	Method Blank	128	116
MB 880-8518/5-A	Method Blank	110	79
MB 880-8519/5-A	Method Blank	63 S1-	101
MB 880-8520/5-A	Method Blank	122	102
MB 880-8521/5-A	Method Blank	112	76
MB 880-8522/5-A	Method Blank	87	104
MB 880-8523/5-A	Method Blank	109	96
MB 880-8524/5-A	Method Blank	121	76
MB 880-8526/5-A	Method Blank	122	104
MB 880-8532/5-A	Method Blank	112	100
MB 880-8537/5-A	Method Blank	118	84
MB 880-8648/5-A	Method Blank	119	80
MB 880-8649/5-A	Method Blank	106	102
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
LCSD 880-8526/2-A	Lab Control Sample Dup		
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6474-1	C-467	121	121
880-6474-1 MS	C-467	95	85
880-6474-1 MSD	C-467	98	90
880-6474-2	C-468	120	119
880-6474-3	C-469	104	103
880-6474-4	C-470	98	98
880-6474-5	C-471	105	104
880-6474-6	C-472	101	98
880-6474-7	C-473	105	104
880-6474-8	C-474	94	93
880-6474-9	C-475	97	98
880-6474-10	C-476	110	110

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6474-1

Project/Site: Palmio Ast

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6474-11	C-477	119	116
880-6474-12	C-478	115	114
880-6474-13	C-479	96	92
880-6474-14	C-480	98	97
880-6474-15	C-481	115	110
880-6474-16	C-482	108	105
880-6474-17	C-483	100	97
880-6474-18	C-484	102	100
880-6474-19	C-485	115	112
880-6474-20	C-486	5 S1-	0.4 S1-
880-6474-21	C-487	93	103
880-6474-21 MS	C-487	95	91
880-6474-21 MSD	C-487	97	93
880-6474-22	C-488	101	106
880-6474-23	C-489	97	105
880-6474-24	C-490	104	110
880-6474-25	C-491	109	115
880-6474-26	C-492	108	114
880-6474-27	C-493	105	109
880-6474-28	C-494	105	112
880-6474-29	C-495	104	112
880-6474-30	C-496	101	105
880-6474-31	C-497	105	111
880-6474-32	C-498	107	117
880-6474-33	C-499	107	112
880-6474-34	C-500	101	106
880-6474-35	C-501	110	115
880-6474-36	C-502	106	112
880-6474-37	C-503	107	113
880-6474-38	C-504	106	113
880-6474-39	C-505	102	107
880-6474-40	C-506	103	109
880-6474-41	C-507	107	106
880-6474-41 MS	C-507	106	93
880-6474-41 MSD	C-507	105	92
880-6474-42	C-508	109	105
880-6474-43	C-509	102	100
880-6474-44	C-510	107	110
880-6474-45	C-511	100	96
880-6474-46	C-512	104	108
880-6474-47	C-513	102	100
880-6474-48	C-514	108	113
880-6474-49	C-514	105	105
880-6474-50	C-516	115	113
880-6474-51	C-517	102	100
880-6474-52	C-518	98	97
880-6474-53	C-519	103	103
880-6474-54	C-520	104	104
880-6474-55	C-521	118	117
880-6474-56	C-522	97	96

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6474-1

Project/Site: Palmio Ast

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6474-57	C-523	109	104
880-6474-58	C-524	103	96
880-6474-59	C-525	99	96
880-6474-60	C-526	98	97
880-6474-61	C-527	82	84
880-6474-61 MS	C-527	79	77
880-6474-61 MSD	C-527	79	77
880-6474-62	C-528	86	88
880-6474-63	C-529	87	90
880-6474-64	C-531	95	101
880-6474-65	C-531	92	99
880-6474-66	C-532	92	97
880-6474-67	C-533	91	98
880-6474-68	C-534	91	100
880-6474-69	C-535	91	97
880-6474-70	C-536	91	98
880-6474-71	C-537	94	99
880-6474-72	C-538	95	104
880-6474-73	C-539	82	82
880-6474-74	C-540	88	89
880-6474-75	C-541	85	87
880-6474-76	C-542	83	86
880-6474-77	C-543	91	96
880-6474-78	C-544	88	93
880-6474-79	C-545	90	102
880-6474-80	C-546	82	86
880-6474-81	C-547	104	114
880-6474-81 MS	C-547	106	102
880-6474-81 MSD	C-547	114	109
880-6474-82	C-548	105	115
880-6474-83	C-549	102	113
880-6474-84	C-550	97	105
880-6474-85	C-551	103	114
880-6474-86	C-552	105	117
880-6474-87	C-553	102	111
880-6474-88	C-554	93	99
880-6474-89	C-555	108	121
880-6474-90	C-556	102	114
880-6474-91	C-557	107	122
880-6474-92	C-558	97	102
880-6474-93	C-559	116	127
880-6474-94	C-560	118	130
880-6474-95	C-561	102	113
880-6474-96	C-562	102	111
880-6474-97	C-563	95	102
880-6474-98	C-564	111	116
880-6474-99	C-565	113	118
880-6474-100	C-566	96	101
880-6474-101	C-567	79	83
880-6474-101 MS	C-567	78	76

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6474-1

Project/Site: Palmio Ast

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6474-101 MSD	C-567	70	68 S1-
880-6474-102	C-568	89	94
880-6474-103	C-569	78	80
880-6474-104	C-570	79	83
880-6474-105	C-571	78	80
880-6474-106	C-572	79	82
880-6474-107	C-573	77	79
880-6474-108	C-574	84	86
880-6474-109	C-575	93	97
880-6474-110	C-576	100	103
880-6474-111	C-578	77	79
880-6474-112	C-579	99	102
880-6474-113	C-580	75	76
880-6474-114	C-581	71	73
880-6474-115	C-582	78	79
880-6474-116	C-583	77	78
880-6474-117	C-584	76	77
880-6474-118	C-585	79	81
880-6474-119	C-586	94	102
880-6474-120	C-587	91	102
880-6474-121	C-588	91	102
880-6474-121 MS	C-588	89	87
880-6474-121 MSD	C-588	73	71
880-6474-122	C-589	34 S1-	28 S1-
880-6474-123	C-590	43 S1-	42 S1-
880-6474-124	C-591	90	96
880-6474-125	C-592	41 S1-	38 S1-
880-6474-126	C-593	58 S1-	60 S1-
880-6474-127	C-594	27 S1-	20 S1-
880-6474-128	C-595	99	107
880-6474-129	C-596	95	101
880-6474-130	C-597	30 S1-	22 S1-
880-6474-131	C-598	50 S1-	49 S1-
880-6474-132	C-599	97	101
880-6474-133	C-600	75	82
880-6474-134	C-601	71	76
880-6474-135	C-602	65 S1-	66 S1-
880-6474-136	C-603	59 S1-	59 S1-
880-6474-137	C-604	3 S1-	0.4 S1-
880-6474-138	C-605	110	116
880-6474-139	C-606	97	103
880-6474-140	C-607	111	119
880-6474-141	C-607-2	77	81
880-6474-141 MS	C-607-2	74	75
880-6474-141 MSD	C-607-2	75	75
880-6474-142	C-608	77	79
880-6474-143	C-609	80	81
880-6474-144	C-610	80	80
880-6474-145	C-611	74	75
880-6474-146	C-612	83	87

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6474-1

Project/Site: Palmio Ast

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-6474-147	C-613	81	84
880-6474-148	C-614	84	87
880-6474-149	C-615	80	83
880-6474-150	C-616	77	79
880-6474-151	C-617	80	83
880-6474-152	C-618	81	82
880-6474-153	C-619	73	74
880-6474-154	C-620	79	82
880-6474-155	C-621	79	80
880-6474-156	C-622	86	90
880-6474-157	C-623	86	90
880-6474-158	C-624	85	88
880-6474-159	C-625	82	86
880-6474-160	C-626	79	79
880-6474-161	C-627	121	131 S1+
880-6474-162	C-628	122	132 S1+
880-6474-163	C-629	117	134 S1+
880-6474-164	C-630	101	107
880-6474-165	C-631	97	104
880-6474-166	C-632	101	109
880-6505-A-1-C MS	Matrix Spike	118	109
880-6505-A-1-D MSD	Matrix Spike Duplicate	120	107
LCS 880-8437/2-A	Lab Control Sample	122	118
LCS 880-8463/2-A	Lab Control Sample	121	116
LCS 880-8466/2-A	Lab Control Sample	121	109
LCS 880-8470/2-A	Lab Control Sample	89	92
LCS 880-8471/2-A	Lab Control Sample	115	112
LCS 880-8485/2-A	Lab Control Sample	120	123
LCS 880-8501/2-A	Lab Control Sample	100	102
LCS 880-8503/2-A	Lab Control Sample	116	115
LCS 880-8509/2-A	Lab Control Sample	99	93
LCSD 880-8437/3-A	Lab Control Sample Dup	119	111
LCSD 880-8463/3-A	Lab Control Sample Dup	113	108
LCSD 880-8466/3-A	Lab Control Sample Dup	118	110
LCSD 880-8470/3-A	Lab Control Sample Dup	102	101
LCSD 880-8471/3-A	Lab Control Sample Dup	126	118
LCSD 880-8485/3-A	Lab Control Sample Dup	120	114
LCSD 880-8501/3-A	Lab Control Sample Dup	93	96
LCSD 880-8503/3-A	Lab Control Sample Dup	108	110
LCSD 880-8509/3-A	Lab Control Sample Dup	103	104
MB 880-8437/1-A	Method Blank	111	119
MB 880-8463/1-A	Method Blank	114	125
MB 880-8466/1-A	Method Blank	112	118
MB 880-8470/1-A	Method Blank	85	96
MB 880-8471/1-A	Method Blank	95	106
MB 880-8485/1-A	Method Blank	121	129
MB 880-8501/1-A	Method Blank	86	93
MB 880-8503/1-A	Method Blank	107	122
MB 880-8509/1-A	Method Blank	85	90

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8508/5-A

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8508

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 16:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 16:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 16:50	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 10:15	09/30/21 16:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 16:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 10:15	09/30/21 16:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	09/28/21 10:15	09/30/21 16:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/28/21 10:15	09/30/21 16:50	1

Lab Sample ID: MB 880-8517/5-A

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8517

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:08	09/29/21 12:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:08	09/29/21 12:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:08	09/29/21 12:40	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:08	09/29/21 12:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:08	09/29/21 12:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:08	09/29/21 12:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/28/21 13:08	09/29/21 12:40	1
1,4-Difluorobenzene (Surr)	116		70 - 130	09/28/21 13:08	09/29/21 12:40	1

Lab Sample ID: LCS 880-8517/1-A

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09029		mg/Kg		90	70 - 130
Toluene	0.100	0.08751		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08523		mg/Kg		85	70 - 130
m,p-Xylenes	0.200	0.1641		mg/Kg		82	70 - 130
o-Xylene	0.100	0.07521		mg/Kg		75	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-8517/2-A

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8517

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07792		mg/Kg		78	70 - 130	15	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-8517/2-A

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8517

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.09676		mg/Kg		97	70 - 130	10	35
Ethylbenzene	0.100	0.09820		mg/Kg		98	70 - 130	14	35
m,p-Xylenes	0.200	0.1741		mg/Kg		87	70 - 130	6	35
o-Xylene	0.100	0.07666		mg/Kg		77	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-6451-A-1-D MS

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8517

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.000567	J F2 F1	0.100	0.08866		mg/Kg		88	70 - 130
Toluene	0.0170		0.100	0.1066		mg/Kg		89	70 - 130
Ethylbenzene	0.0142		0.100	0.1018		mg/Kg		87	70 - 130
m,p-Xylenes	0.0424		0.201	0.1852		mg/Kg		71	70 - 130
o-Xylene	0.0118		0.100	0.09212		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-6451-A-1-E MSD

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8517

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.000567	J F2 F1	0.100	0.05612	F1 F2	mg/Kg		55	70 - 130	45	35
Toluene	0.0170		0.100	0.09112		mg/Kg		74	70 - 130	16	35
Ethylbenzene	0.0142		0.100	0.1109		mg/Kg		97	70 - 130	9	35
m,p-Xylenes	0.0424		0.200	0.1979		mg/Kg		78	70 - 130	7	35
o-Xylene	0.0118		0.100	0.09476		mg/Kg		83	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130

Lab Sample ID: MB 880-8518/5-A

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8518

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/29/21 23:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/29/21 23:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/29/21 23:41	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:11	09/29/21 23:41	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8518/5-A

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8518

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:11	09/29/21 23:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:11	09/29/21 23:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			09/28/21 13:11	09/29/21 23:41	1
1,4-Difluorobenzene (Surr)	79		70 - 130			09/28/21 13:11	09/29/21 23:41	1

Lab Sample ID: LCS 880-8518/1-A

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07479		mg/Kg		75	70 - 130
Toluene	0.100	0.08060		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08198		mg/Kg		82	70 - 130
m,p-Xylenes	0.200	0.1463		mg/Kg		73	70 - 130
o-Xylene	0.100	0.07121		mg/Kg		71	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	89		70 - 130				
1,4-Difluorobenzene (Surr)	77		70 - 130				

Lab Sample ID: LCSD 880-8518/2-A

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8518

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07732		mg/Kg		77	70 - 130	3	35
Toluene	0.100	0.08229		mg/Kg		82	70 - 130	2	35
Ethylbenzene	0.100	0.08548		mg/Kg		85	70 - 130	4	35
m,p-Xylenes	0.200	0.1527		mg/Kg		76	70 - 130	4	35
o-Xylene	0.100	0.07651		mg/Kg		77	70 - 130	7	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		70 - 130						
1,4-Difluorobenzene (Surr)	97		70 - 130						

Lab Sample ID: 880-6474-1 MS

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: C-467

Prep Type: Total/NA

Prep Batch: 8518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U	0.100	0.04106		mg/Kg		41	70 - 130
Toluene	<0.00202	U	0.100	0.05774		mg/Kg		57	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.05760		mg/Kg		58	70 - 130
m,p-Xylenes	<0.00403	U	0.200	0.1065		mg/Kg		53	70 - 130
o-Xylene	<0.00202	U	0.100	0.05070		mg/Kg		50	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6474-1 MS

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: C-467

Prep Type: Total/NA

Prep Batch: 8518

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 880-6474-1 MSD

Matrix: Solid

Analysis Batch: 8572

Client Sample ID: C-467

Prep Type: Total/NA

Prep Batch: 8518

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0996	0.04758		mg/Kg		48	70 - 130	15	35
Toluene	<0.00202	U	0.0996	0.07929		mg/Kg		79	70 - 130	31	35
Ethylbenzene	<0.00202	U	0.0996	0.08011		mg/Kg		80	70 - 130	33	35
m,p-Xylenes	<0.00403	U	0.199	0.1408		mg/Kg		71	70 - 130	28	35
o-Xylene	<0.00202	U	0.0996	0.06731		mg/Kg		67	70 - 130	28	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-8519/5-A

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8519

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 06:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 06:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 06:37	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:13	10/01/21 06:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:13	10/01/21 06:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:13	10/01/21 06:37	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	09/28/21 13:13	10/01/21 06:37	1		
1,4-Difluorobenzene (Surr)	101		70 - 130	09/28/21 13:13	10/01/21 06:37	1		

Lab Sample ID: LCS 880-8519/1-A

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09042		mg/Kg		90	70 - 130
Toluene	0.100	0.09918		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09220		mg/Kg		92	70 - 130
m,p-Xylenes	0.200	0.2009		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1032		mg/Kg		103	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8519/1-A

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8519

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-8519/2-A

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8519

			Spike	LCSD	LCSD			%Rec.		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.08472		mg/Kg		85	70 - 130	7	35
Toluene			0.100	0.09083		mg/Kg		91	70 - 130	9	35
Ethylbenzene			0.100	0.08588		mg/Kg		86	70 - 130	7	35
m,p-Xylenes			0.200	0.1866		mg/Kg		93	70 - 130	7	35
o-Xylene			0.100	0.09581		mg/Kg		96	70 - 130	7	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-6474-21 MS

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: C-487

Prep Type: Total/NA

Prep Batch: 8519

	Sample	Sample	Spike	MS	MS			%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F2 F1	0.0990	0.005581	F1	mg/Kg		6	70 - 130	
Toluene	<0.00199	U F2 F1	0.0990	0.004516	F1	mg/Kg		5	70 - 130	
Ethylbenzene	<0.00199	U F1	0.0990	0.008061	F1	mg/Kg		8	70 - 130	
m,p-Xylenes	<0.00398	U F2 F1	0.198	0.01860	F1	mg/Kg		9	70 - 130	
o-Xylene	<0.00199	U F1	0.0990	0.009226	F1	mg/Kg		9	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-6474-21 MSD

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: C-487

Prep Type: Total/NA

Prep Batch: 8519

	Sample	Sample	Spike	MSD	MSD			%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.0990	0.008980	F2 F1	mg/Kg		9	70 - 130	47	35
Toluene	<0.00199	U F2 F1	0.0990	0.007467	F2 F1	mg/Kg		8	70 - 130	49	35
Ethylbenzene	<0.00199	U F1	0.0990	0.006301	F1	mg/Kg		6	70 - 130	25	35
m,p-Xylenes	<0.00398	U F2 F1	0.198	0.01258	F2 F1	mg/Kg		6	70 - 130	39	35
o-Xylene	<0.00199	U F1	0.0990	0.006979	F1	mg/Kg		7	70 - 130	28	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8520/5-A

Matrix: Solid

Analysis Batch: 8722

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8520

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 14:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 14:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 14:38	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:15	10/01/21 14:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:15	10/01/21 14:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:15	10/01/21 14:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	09/28/21 13:15	10/01/21 14:38	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/28/21 13:15	10/01/21 14:38	1

Lab Sample ID: LCS 880-8520/1-A

Matrix: Solid

Analysis Batch: 8722

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08303		mg/Kg		83	70 - 130
Toluene	0.100	0.09343		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09253		mg/Kg		93	70 - 130
m,p-Xylenes	0.200	0.2067		mg/Kg		103	70 - 130
o-Xylene	0.100	0.09587		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-8520/2-A

Matrix: Solid

Analysis Batch: 8722

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08145		mg/Kg		81	70 - 130	2	35
Toluene	0.100	0.08636		mg/Kg		86	70 - 130	8	35
Ethylbenzene	0.100	0.08139		mg/Kg		81	70 - 130	13	35
m,p-Xylenes	0.200	0.1800		mg/Kg		90	70 - 130	14	35
o-Xylene	0.100	0.08441		mg/Kg		84	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-6474-41 MS

Matrix: Solid

Analysis Batch: 8722

Client Sample ID: C-507

Prep Type: Total/NA

Prep Batch: 8520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F2 F1	0.0994	0.2520	F1	mg/Kg		253	70 - 130
Toluene	<0.00202	U F2 F1	0.0994	0.1516	F1	mg/Kg		152	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6474-41 MS

Matrix: Solid

Analysis Batch: 8722

Client Sample ID: C-507

Prep Type: Total/NA

Prep Batch: 8520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00202	U F2 F1	0.0994	0.05418	F1	mg/Kg		55	70 - 130
m,p-Xylenes	<0.00403	U F2 F1	0.199	0.1213	F1	mg/Kg		61	70 - 130
o-Xylene	<0.00202	U	0.0994	0.07758		mg/Kg		78	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	39	S1-	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-6474-41 MSD

Matrix: Solid

Analysis Batch: 8722

Client Sample ID: C-507

Prep Type: Total/NA

Prep Batch: 8520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F2 F1	0.101	0.07888	F2	mg/Kg		78	70 - 130	105	35
Toluene	<0.00202	U F2 F1	0.101	0.01583	F2 F1	mg/Kg		16	70 - 130	162	35
Ethylbenzene	<0.00202	U F2 F1	0.101	0.1456	F1 F2	mg/Kg		144	70 - 130	92	35
m,p-Xylenes	<0.00403	U F2 F1	0.202	0.007836	F2 F1	mg/Kg		4	70 - 130	176	35
o-Xylene	<0.00202	U	0.101	0.09225		mg/Kg		91	70 - 130	17	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	17	S1-	70 - 130

Lab Sample ID: MB 880-8521/5-A

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8521

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	09/30/21 23:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	09/30/21 23:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	09/30/21 23:01	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:17	09/30/21 23:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:17	09/30/21 23:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:17	09/30/21 23:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/28/21 13:17	09/30/21 23:01	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/28/21 13:17	09/30/21 23:01	1

Lab Sample ID: LCS 880-8521/1-A

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08605		mg/Kg		86	70 - 130
Toluene	0.100	0.08877		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09040		mg/Kg		90	70 - 130
m,p-Xylenes	0.200	0.1879		mg/Kg		94	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8521/1-A

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.09672		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-8521/2-A

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8521

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08226		mg/Kg		82	70 - 130	5	35
Toluene	0.100	0.08688		mg/Kg		87	70 - 130	2	35
Ethylbenzene	0.100	0.08927		mg/Kg		89	70 - 130	1	35
m,p-Xylenes	0.200	0.1867		mg/Kg		93	70 - 130	1	35
o-Xylene	0.100	0.09609		mg/Kg		96	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 880-6474-61 MS

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: C-527

Prep Type: Total/NA

Prep Batch: 8521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0998	0.07801		mg/Kg		78	70 - 130
Toluene	<0.00199	U	0.0998	0.07795		mg/Kg		78	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.07566		mg/Kg		76	70 - 130
m,p-Xylenes	<0.00398	U	0.200	0.1571		mg/Kg		79	70 - 130
o-Xylene	<0.00199	U	0.0998	0.07865		mg/Kg		78	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-6474-61 MSD

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: C-527

Prep Type: Total/NA

Prep Batch: 8521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0994	0.08433		mg/Kg		85	70 - 130	8	35
Toluene	<0.00199	U	0.0994	0.08495		mg/Kg		85	70 - 130	9	35
Ethylbenzene	<0.00199	U	0.0994	0.08309		mg/Kg		84	70 - 130	9	35
m,p-Xylenes	<0.00398	U	0.199	0.1746		mg/Kg		88	70 - 130	11	35
o-Xylene	<0.00199	U	0.0994	0.08785		mg/Kg		88	70 - 130	11	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6474-61 MSD

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: C-527

Prep Type: Total/NA

Prep Batch: 8521

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: MB 880-8522/5-A

Matrix: Solid

Analysis Batch: 8637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8522

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	09/30/21 23:09	1	
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	09/30/21 23:09	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	09/30/21 23:09	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:20	09/30/21 23:09	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:20	09/30/21 23:09	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:20	09/30/21 23:09	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			09/28/21 13:20	09/30/21 23:09	1	
1,4-Difluorobenzene (Surr)	104		70 - 130			09/28/21 13:20	09/30/21 23:09	1	

Lab Sample ID: LCS 880-8522/1-A

Matrix: Solid

Analysis Batch: 8637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8522

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.08526		mg/Kg		85	70 - 130		
Toluene	0.100	0.08691		mg/Kg		87	70 - 130		
Ethylbenzene	0.100	0.08869		mg/Kg		89	70 - 130		
m,p-Xylenes	0.200	0.1603		mg/Kg		80	70 - 130		
o-Xylene	0.100	0.07702		mg/Kg		77	70 - 130		

	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: LCSD 880-8522/2-A

Matrix: Solid

Analysis Batch: 8637

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8522

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07256		mg/Kg		73	70 - 130	16	35	
Toluene	0.100	0.09244		mg/Kg		92	70 - 130	6	35	
Ethylbenzene	0.100	0.08676		mg/Kg		87	70 - 130	2	35	
m,p-Xylenes	0.200	0.1575		mg/Kg		79	70 - 130	2	35	
o-Xylene	0.100	0.07556		mg/Kg		76	70 - 130	2	35	

	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	99		70 - 130							

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-8522/2-A

Matrix: Solid

Analysis Batch: 8637

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8522

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 880-6474-81 MS

Matrix: Solid

Analysis Batch: 8637

Client Sample ID: C-547

Prep Type: Total/NA

Prep Batch: 8522

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U F1	0.101	0.06199	F1	mg/Kg		61	70 - 130
Toluene	<0.00200	U F1	0.101	0.06855	F1	mg/Kg		68	70 - 130
Ethylbenzene	<0.00200	U F1	0.101	0.06187	F1	mg/Kg		61	70 - 130
m,p-Xylenes	<0.00399	U F1	0.202	0.1065	F1	mg/Kg		53	70 - 130
o-Xylene	<0.00200	U F1	0.101	0.05034	F1	mg/Kg		50	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-6474-81 MSD

Matrix: Solid

Analysis Batch: 8637

Client Sample ID: C-547

Prep Type: Total/NA

Prep Batch: 8522

	Sample	Sample	Spike	MSD	MSD				%Rec.	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Benzene	<0.00200	U F1	0.0994	0.06627	F1	mg/Kg		67	70 - 130	7
Toluene	<0.00200	U F1	0.0994	0.07227		mg/Kg		73	70 - 130	5
Ethylbenzene	<0.00200	U F1	0.0994	0.06537	F1	mg/Kg		66	70 - 130	6
m,p-Xylenes	<0.00399	U F1	0.199	0.1132	F1	mg/Kg		57	70 - 130	6
o-Xylene	<0.00200	U F1	0.0994	0.05384	F1	mg/Kg		54	70 - 130	7

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: MB 880-8523/5-A

Matrix: Solid

Analysis Batch: 8722

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8523

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 02:12	1	
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 02:12	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 02:12	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:22	10/02/21 02:12	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:22	10/02/21 02:12	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:22	10/02/21 02:12	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	109		70 - 130	09/28/21 13:22	10/02/21 02:12	1			
1,4-Difluorobenzene (Surr)	96		70 - 130	09/28/21 13:22	10/02/21 02:12	1			

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8523/1-A

Matrix: Solid

Analysis Batch: 8722

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07923		mg/Kg		79	70 - 130
Toluene	0.100	0.07926		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.07797		mg/Kg		78	70 - 130
m,p-Xylenes	0.200	0.1771		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08370		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-8523/2-A

Matrix: Solid

Analysis Batch: 8722

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8523

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07459		mg/Kg		75	70 - 130	6	35
Toluene	0.100	0.09066		mg/Kg		91	70 - 130	13	35
Ethylbenzene	0.100	0.08371		mg/Kg		84	70 - 130	7	35
m,p-Xylenes	0.200	0.1882		mg/Kg		94	70 - 130	6	35
o-Xylene	0.100	0.08578		mg/Kg		86	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-6474-101 MS

Matrix: Solid

Analysis Batch: 8722

Client Sample ID: C-567

Prep Type: Total/NA

Prep Batch: 8523

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0998	<0.00200	U F1	mg/Kg		0	70 - 130
Toluene	<0.00199	U F2 F1	0.0998	0.01437	F1	mg/Kg		14	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	<0.00200	U F1	mg/Kg		0	70 - 130
m,p-Xylenes	<0.00398	U F2 F1	0.200	0.04198	F1	mg/Kg		20	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0998	0.01633	F1	mg/Kg		16	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	74		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-6474-101 MSD

Matrix: Solid

Analysis Batch: 8722

Client Sample ID: C-567

Prep Type: Total/NA

Prep Batch: 8523

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0996	0.003106	F1	mg/Kg		2	70 - 130	NC	35
Toluene	<0.00199	U F2 F1	0.0996	<0.00199	U F2 F1	mg/Kg		2	70 - 130	160	35
Ethylbenzene	<0.00199	U F1	0.0996	0.004520	F1	mg/Kg		5	70 - 130	NC	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6474-101 MSD

Matrix: Solid

Analysis Batch: 8722

Client Sample ID: C-567

Prep Type: Total/NA

Prep Batch: 8523

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m,p-Xylenes	<0.00398	U F2 F1	0.199	0.02424	F2 F1	mg/Kg		12	70 - 130	54	35
o-Xylene	<0.00199	U F2 F1	0.0996	0.003288	F2 F1	mg/Kg		3	70 - 130	133	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	116		70 - 130								
1,4-Difluorobenzene (Surr)	16	S1-	70 - 130								

Lab Sample ID: MB 880-8524/5-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8524

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/01/21 23:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/01/21 23:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/01/21 23:31	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:25	10/01/21 23:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:25	10/01/21 23:31	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:25	10/01/21 23:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			09/28/21 13:25	10/01/21 23:31	1
1,4-Difluorobenzene (Surr)	76		70 - 130			09/28/21 13:25	10/01/21 23:31	1

Lab Sample ID: LCS 880-8524/1-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Benzene	0.100	0.08741		mg/Kg		87	70 - 130	
Toluene	0.100	0.09534		mg/Kg		95	70 - 130	
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	
m,p-Xylenes	0.200	0.2127		mg/Kg		106	70 - 130	
o-Xylene	0.100	0.1083		mg/Kg		108	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	128		70 - 130					
1,4-Difluorobenzene (Surr)	70		70 - 130					

Lab Sample ID: LCSD 880-8524/2-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09453		mg/Kg		95	70 - 130	8	35
Toluene	0.100	0.09682		mg/Kg		97	70 - 130	2	35
Ethylbenzene	0.100	0.1005		mg/Kg		101	70 - 130	0	35
m,p-Xylenes	0.200	0.2095		mg/Kg		105	70 - 130	2	35
o-Xylene	0.100	0.1059		mg/Kg		106	70 - 130	2	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 880-6474-121 MS

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: C-588

Prep Type: Total/NA

Prep Batch: 8524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.101	0.06224	F1	mg/Kg		62	70 - 130
Toluene	<0.00200	U	0.101	0.07550		mg/Kg		75	70 - 130
Ethylbenzene	<0.00200	U	0.101	0.08316		mg/Kg		82	70 - 130
m,p-Xylenes	<0.00399	U	0.202	0.1724		mg/Kg		86	70 - 130
o-Xylene	<0.00200	U	0.101	0.08798		mg/Kg		87	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130

Lab Sample ID: 880-6474-121 MSD

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: C-588

Prep Type: Total/NA

Prep Batch: 8524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0996	0.06026	F1	mg/Kg		61	70 - 130	3	35
Toluene	<0.00200	U	0.0996	0.07788		mg/Kg		78	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.08298		mg/Kg		83	70 - 130	0	35
m,p-Xylenes	<0.00399	U	0.199	0.1702		mg/Kg		85	70 - 130	1	35
o-Xylene	<0.00200	U	0.0996	0.09366		mg/Kg		94	70 - 130	6	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130

Lab Sample ID: MB 880-8526/5-A

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8526

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/01/21 23:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/01/21 23:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/01/21 23:43	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:27	10/01/21 23:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:27	10/01/21 23:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:27	10/01/21 23:43	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	122		70 - 130	09/28/21 13:27	10/01/21 23:43	1		
1,4-Difluorobenzene (Surr)	104		70 - 130	09/28/21 13:27	10/01/21 23:43	1		

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8526/1-A

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08398		mg/Kg		84	70 - 130
Toluene	0.100	0.08735		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.07544		mg/Kg		75	70 - 130
m,p-Xylenes	0.200	0.1470		mg/Kg		74	70 - 130
o-Xylene	0.100	0.07560		mg/Kg		76	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-8526/2-A

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8526

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08413		mg/Kg					
Toluene	0.100	0.09198		mg/Kg					
Ethylbenzene	0.100	0.09297		mg/Kg					
m,p-Xylenes	0.200	0.1647		mg/Kg					
o-Xylene	0.100	0.07772		mg/Kg					

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 880-6474-141 MS

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: C-607-2

Prep Type: Total/NA

Prep Batch: 8526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U *- F1 *1	0.100	0.04489	F1	mg/Kg		45	70 - 130
Toluene	<0.00200	U F1	0.100	0.07717		mg/Kg		77	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.07250		mg/Kg		72	70 - 130
m,p-Xylenes	<0.00401	U F1	0.200	0.1184	F1	mg/Kg		59	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.05552	F1	mg/Kg		54	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 880-6474-141 MSD

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: C-607-2

Prep Type: Total/NA

Prep Batch: 8526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U *- F1 *1	0.0998	0.04310	F1	mg/Kg		43	70 - 130	4	35
Toluene	<0.00200	U F1	0.0998	0.06677	F1	mg/Kg		67	70 - 130	14	35
Ethylbenzene	<0.00200	U F1	0.0998	0.06527	F1	mg/Kg		65	70 - 130	10	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6474-141 MSD

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: C-607-2

Prep Type: Total/NA

Prep Batch: 8526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m,p-Xylenes	<0.00401	U F1	0.200	0.1189	F1	mg/Kg		60	70 - 130	0	35
o-Xylene	<0.00200	U F1	0.0998	0.06107	F1	mg/Kg		60	70 - 130	10	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

Lab Sample ID: MB 880-8532/5-A

Matrix: Solid

Analysis Batch: 8637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8532

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/21 13:50	09/30/21 12:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/21 13:50	09/30/21 12:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/21 13:50	09/30/21 12:07	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/29/21 13:50	09/30/21 12:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/21 13:50	09/30/21 12:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/29/21 13:50	09/30/21 12:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits					
4-Bromofluorobenzene (Surr)	112		70 - 130					
1,4-Difluorobenzene (Surr)	100		70 - 130					

Lab Sample ID: MB 880-8537/5-A

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8537

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 12:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 12:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 12:07	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/29/21 14:00	09/30/21 12:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 12:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/29/21 14:00	09/30/21 12:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits					
4-Bromofluorobenzene (Surr)	118		70 - 130					
1,4-Difluorobenzene (Surr)	84		70 - 130					

Lab Sample ID: MB 880-8648/5-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8648

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/01/21 09:00	10/01/21 12:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/01/21 09:00	10/01/21 12:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/01/21 09:00	10/01/21 12:38	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/01/21 09:00	10/01/21 12:38	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8648/5-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8648

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/01/21 09:00	10/01/21 12:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/01/21 09:00	10/01/21 12:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			10/01/21 09:00	10/01/21 12:38	1
1,4-Difluorobenzene (Surr)	80		70 - 130			10/01/21 09:00	10/01/21 12:38	1

Lab Sample ID: MB 880-8649/5-A

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8649

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/01/21 09:00	10/01/21 12:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/01/21 09:00	10/01/21 12:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/01/21 09:00	10/01/21 12:42	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/01/21 09:00	10/01/21 12:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/01/21 09:00	10/01/21 12:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/01/21 09:00	10/01/21 12:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			10/01/21 09:00	10/01/21 12:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/01/21 09:00	10/01/21 12:42	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-8437/1-A

Matrix: Solid

Analysis Batch: 8433

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8437

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 10:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 10:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 09:22	09/27/21 10:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130			09/27/21 09:22	09/27/21 10:47	1
o-Terphenyl (Surr)	119		70 - 130			09/27/21 09:22	09/27/21 10:47	1

Lab Sample ID: LCS 880-8437/2-A

Matrix: Solid

Analysis Batch: 8433

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1047		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1201		mg/Kg		120	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-8437/2-A

Matrix: Solid

Analysis Batch: 8433

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8437

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	122		70 - 130
o-Terphenyl (Surr)	118		70 - 130

Lab Sample ID: LCSD 880-8437/3-A

Matrix: Solid

Analysis Batch: 8433

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8437

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1037		mg/Kg		104	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1135		mg/Kg		113	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	119		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Lab Sample ID: 880-6474-1 MS

Matrix: Solid

Analysis Batch: 8433

Client Sample ID: C-467

Prep Type: Total/NA

Prep Batch: 8437

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	764.9		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	944.4		mg/Kg		95	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	85		70 - 130

Lab Sample ID: 880-6474-1 MSD

Matrix: Solid

Analysis Batch: 8433

Client Sample ID: C-467

Prep Type: Total/NA

Prep Batch: 8437

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	794.4		mg/Kg		80	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1020		mg/Kg		102	70 - 130	8	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	90		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-8463/1-A

Matrix: Solid

Analysis Batch: 8431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8463

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/27/21 20:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/27/21 20:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 13:45	09/27/21 20:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			09/27/21 13:45	09/27/21 20:39	1
o-Terphenyl (Surr)	125		70 - 130			09/27/21 13:45	09/27/21 20:39	1

Lab Sample ID: LCS 880-8463/2-A

Matrix: Solid

Analysis Batch: 8431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1091		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1072		mg/Kg		107	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	121		70 - 130				
o-Terphenyl (Surr)	116		70 - 130				

Lab Sample ID: LCSD 880-8463/3-A

Matrix: Solid

Analysis Batch: 8431

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	931.6		mg/Kg		93	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	999.8		mg/Kg		100	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	113		70 - 130						
o-Terphenyl (Surr)	108		70 - 130						

Lab Sample ID: 880-6474-21 MS

Matrix: Solid

Analysis Batch: 8431

Client Sample ID: C-487

Prep Type: Total/NA

Prep Batch: 8463

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	921.4		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	949.8		mg/Kg		95	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6474-21 MS

Matrix: Solid

Analysis Batch: 8431

Client Sample ID: C-487

Prep Type: Total/NA

Prep Batch: 8463

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	91		70 - 130

Lab Sample ID: 880-6474-21 MSD

Matrix: Solid

Analysis Batch: 8431

Client Sample ID: C-487

Prep Type: Total/NA

Prep Batch: 8463

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	911.3		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	977.7		mg/Kg		98	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	97		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Lab Sample ID: MB 880-8466/1-A

Matrix: Solid

Analysis Batch: 8433

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8466

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/27/21 20:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/27/21 20:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:00	09/27/21 20:39	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	112		70 - 130	09/27/21 14:00	09/27/21 20:39	1
o-Terphenyl (Surr)	118		70 - 130	09/27/21 14:00	09/27/21 20:39	1

Lab Sample ID: LCS 880-8466/2-A

Matrix: Solid

Analysis Batch: 8433

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1027		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1161		mg/Kg		116	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	121		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8466/3-A

Matrix: Solid

Analysis Batch: 8433

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8466

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1021		mg/Kg		102	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1133		mg/Kg		113	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	118		70 - 130						
o-Terphenyl (Surr)	110		70 - 130						

Lab Sample ID: 880-6474-41 MS

Matrix: Solid

Analysis Batch: 8433

Client Sample ID: C-507

Prep Type: Total/NA

Prep Batch: 8466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	977.6		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1081		mg/Kg		107	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	106		70 - 130								
o-Terphenyl (Surr)	93		70 - 130								

Lab Sample ID: 880-6474-41 MSD

Matrix: Solid

Analysis Batch: 8433

Client Sample ID: C-507

Prep Type: Total/NA

Prep Batch: 8466

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	996.6		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1101		mg/Kg		108	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	105		70 - 130								
o-Terphenyl (Surr)	92		70 - 130								

Lab Sample ID: MB 880-8470/1-A

Matrix: Solid

Analysis Batch: 8492

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8470

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 10:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 14:46	09/28/21 10:10	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-8470/1-A

Matrix: Solid

Analysis Batch: 8492

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8470

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane (Surr)	85		70 - 130	09/27/21 14:46	09/28/21 10:10	1				
o-Terphenyl (Surr)	96		70 - 130	09/27/21 14:46	09/28/21 10:10	1				

Lab Sample ID: LCS 880-8470/2-A

Matrix: Solid

Analysis Batch: 8492

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8470

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	881.0		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	798.1		mg/Kg		80	70 - 130		

	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	89		70 - 130								
o-Terphenyl (Surr)	92		70 - 130								

Lab Sample ID: LCSD 880-8470/3-A

Matrix: Solid

Analysis Batch: 8492

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8470

			Spike	LCSD	LCSD				%Rec.		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	921.5		mg/Kg		92	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)			1000	879.1		mg/Kg		88	70 - 130	10	20	

	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	102		70 - 130									
o-Terphenyl (Surr)	101		70 - 130									

Lab Sample ID: 880-6474-61 MS

Matrix: Solid

Analysis Batch: 8492

Client Sample ID: C-527

Prep Type: Total/NA

Prep Batch: 8470

	Sample	Sample	Spike	MS	MS				%Rec.			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	829.1		mg/Kg		83	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.8	U	997	822.9		mg/Kg		83	70 - 130			

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	79		70 - 130									
o-Terphenyl (Surr)	77		70 - 130									

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6474-61 MSD

Matrix: Solid

Analysis Batch: 8492

Client Sample ID: C-527

Prep Type: Total/NA

Prep Batch: 8470

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	831.1		mg/Kg		83	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	840.5		mg/Kg		84	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	79		70 - 130								
o-Terphenyl (Surr)	77		70 - 130								

Lab Sample ID: MB 880-8471/1-A

Matrix: Solid

Analysis Batch: 8494

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8471

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 10:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 15:03	09/28/21 10:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/27/21 15:03	09/28/21 10:10	1
o-Terphenyl (Surr)	106		70 - 130			09/27/21 15:03	09/28/21 10:10	1

Lab Sample ID: LCS 880-8471/2-A

Matrix: Solid

Analysis Batch: 8494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1015		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1135		mg/Kg		113	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	115		70 - 130						
o-Terphenyl (Surr)	112		70 - 130						

Lab Sample ID: LCSD 880-8471/3-A

Matrix: Solid

Analysis Batch: 8494

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8471

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1167		mg/Kg		117	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	1228		mg/Kg		123	70 - 130	8	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8471/3-A

Matrix: Solid

Analysis Batch: 8494

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8471

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	126		70 - 130
o-Terphenyl (Surr)	118		70 - 130

Lab Sample ID: 880-6474-81 MS

Matrix: Solid

Analysis Batch: 8494

Client Sample ID: C-547

Prep Type: Total/NA

Prep Batch: 8471

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	922.4		mg/Kg		91	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1025		mg/Kg		103	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	106		70 - 130							
o-Terphenyl (Surr)	102		70 - 130							

Lab Sample ID: 880-6474-81 MSD

Matrix: Solid

Analysis Batch: 8494

Client Sample ID: C-547

Prep Type: Total/NA

Prep Batch: 8471

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	1001		mg/Kg		98	70 - 130	8	20	
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1125		mg/Kg		113	70 - 130	9	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	114		70 - 130									
o-Terphenyl (Surr)	109		70 - 130									

Lab Sample ID: MB 880-8485/1-A

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8485

	MB	MB									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/27/21 20:32	1			
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/27/21 20:32	1			
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 16:37	09/27/21 20:32	1			
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac			
1-Chlorooctane (Surr)	121		70 - 130			09/27/21 16:37	09/27/21 20:32	1			
o-Terphenyl (Surr)	129		70 - 130			09/27/21 16:37	09/27/21 20:32	1			

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-8485/2-A

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8485

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	898.2		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1236		mg/Kg		124	70 - 130		

Lab Sample ID: LCSD 880-8485/3-A

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8485

			Spike	LCSD	LCSD				%Rec.			RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	974.1		mg/Kg		97	70 - 130	8	20	
Diesel Range Organics (Over C10-C28)			1000	1115		mg/Kg		112	70 - 130	10	20	
			LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	120		70 - 130									
o-Terphenyl (Surr)	114		70 - 130									

Lab Sample ID: 880-6505-A-1-C MS

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8485

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	1087		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1087		mg/Kg		109	70 - 130		
							</				

Lab Sample ID: 880-6505-A-1-D MSD

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8485

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	1107		mg/Kg		108	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1093		mg/Kg		109	70 - 130	1	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6505-A-1-D MSD

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8485

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	107		70 - 130

Lab Sample ID: MB 880-8501/1-A

Matrix: Solid

Analysis Batch: 8492

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8501

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/28/21 19:57	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/28/21 19:57	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:35	09/28/21 19:57	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	86		70 - 130			09/28/21 09:35	09/28/21 19:57	1	
<i>o</i> -Terphenyl (Surr)	93		70 - 130			09/28/21 09:35	09/28/21 19:57	1	

Lab Sample ID: LCS 880-8501/2-A

Matrix: Solid

Analysis Batch: 8492

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8501

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10		1000	895.3		mg/Kg		90	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	896.6		mg/Kg		90	70 - 130	
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	100		70 - 130						
<i>o</i> -Terphenyl (Surr)	102		70 - 130						

Lab Sample ID: LCSD 880-8501/3-A

Matrix: Solid

Analysis Batch: 8492

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8501

		Spike	LCSD	LCSD				%Rec.		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10		1000	949.2		mg/Kg		95	70 - 130	6	20	
Diesel Range Organics (Over C10-C28)		1000	860.6		mg/Kg		86	70 - 130	4	20	
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	93		70 - 130								
<i>o</i> -Terphenyl (Surr)	96		70 - 130								

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6474-101 MS

Matrix: Solid

Analysis Batch: 8492

Client Sample ID: C-567

Prep Type: Total/NA

Prep Batch: 8501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	823.6		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	997	759.6		mg/Kg		76	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	78		70 - 130						
o-Terphenyl (Surr)	76		70 - 130						

Lab Sample ID: 880-6474-101 MSD

Matrix: Solid

Analysis Batch: 8492

Client Sample ID: C-567

Prep Type: Total/NA

Prep Batch: 8501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	702.4		mg/Kg		70	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	999	691.5	F1	mg/Kg		69	70 - 130	9	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	70		70 - 130								
o-Terphenyl (Surr)	68	S1-	70 - 130								

Lab Sample ID: MB 880-8503/1-A

Matrix: Solid

Analysis Batch: 8494

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8503

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/28/21 19:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/28/21 19:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 09:53	09/28/21 19:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			09/28/21 09:53	09/28/21 19:57	1
o-Terphenyl (Surr)	122		70 - 130			09/28/21 09:53	09/28/21 19:57	1

Lab Sample ID: LCS 880-8503/2-A

Matrix: Solid

Analysis Batch: 8494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	975.1		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1165		mg/Kg		116	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-8503/2-A

Matrix: Solid

Analysis Batch: 8494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8503

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	116		70 - 130
o-Terphenyl (Surr)	115		70 - 130

Lab Sample ID: LCSD 880-8503/3-A

Matrix: Solid

Analysis Batch: 8494

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8503

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	911.5		mg/Kg		91	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1104		mg/Kg		110	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	110		70 - 130

Lab Sample ID: 880-6474-121 MS

Matrix: Solid

Analysis Batch: 8494

Client Sample ID: C-588

Prep Type: Total/NA

Prep Batch: 8503

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1 F2	997	877.5		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	968.9		mg/Kg		97	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	89		70 - 130
o-Terphenyl (Surr)	87		70 - 130

Lab Sample ID: 880-6474-121 MSD

Matrix: Solid

Analysis Batch: 8494

Client Sample ID: C-588

Prep Type: Total/NA

Prep Batch: 8503

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1 F2	999	670.7	F1 F2	mg/Kg		67	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	795.1		mg/Kg		80	70 - 130	20	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	73		70 - 130
o-Terphenyl (Surr)	71		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-8509/1-A

Matrix: Solid

Analysis Batch: 8565

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8509

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 10:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 10:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 10:43	09/29/21 10:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			09/28/21 10:43	09/29/21 10:11	1
o-Terphenyl (Surr)	90		70 - 130			09/28/21 10:43	09/29/21 10:11	1

Lab Sample ID: LCS 880-8509/2-A

Matrix: Solid

Analysis Batch: 8565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	822.9		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	851.5		mg/Kg		85	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	99		70 - 130				
o-Terphenyl (Surr)	93		70 - 130				

Lab Sample ID: LCSD 880-8509/3-A

Matrix: Solid

Analysis Batch: 8565

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8509

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	919.6		mg/Kg		92	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	919.4		mg/Kg		92	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	103		70 - 130						
o-Terphenyl (Surr)	104		70 - 130						

Lab Sample ID: 880-6474-141 MS

Matrix: Solid

Analysis Batch: 8565

Client Sample ID: C-607-2

Prep Type: Total/NA

Prep Batch: 8509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	997	645.2	F1	mg/Kg		63	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	997	663.5	F1	mg/Kg		67	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6474-141 MS

Matrix: Solid

Analysis Batch: 8565

Client Sample ID: C-607-2

Prep Type: Total/NA

Prep Batch: 8509

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	74		70 - 130
o-Terphenyl (Surr)	75		70 - 130

Lab Sample ID: 880-6474-141 MSD

Matrix: Solid

Analysis Batch: 8565

Client Sample ID: C-607-2

Prep Type: Total/NA

Prep Batch: 8509

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	999	751.2		mg/Kg		73	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	999	671.2	F1	mg/Kg		67	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	75		70 - 130
o-Terphenyl (Surr)	75		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8449/1-A

Matrix: Solid

Analysis Batch: 8554

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			09/29/21 22:42	1		

Lab Sample ID: LCS 880-8449/2-A

Matrix: Solid

Analysis Batch: 8554

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	263.4		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-8449/3-A

Matrix: Solid

Analysis Batch: 8554

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	263.6		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-6474-1 MS

Matrix: Solid

Analysis Batch: 8554

Client Sample ID: C-467

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	132		248	401.4		mg/Kg		109	90 - 110		

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-6474-1 MSD

Matrix: Solid

Analysis Batch: 8554

Client Sample ID: C-467

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	132		248	402.4		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-6474-11 MS

Matrix: Solid

Analysis Batch: 8554

Client Sample ID: C-477

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	40.0	F1	253	322.0	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-6474-11 MSD

Matrix: Solid

Analysis Batch: 8554

Client Sample ID: C-477

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	40.0	F1	253	322.3	F1	mg/Kg		112	90 - 110	0	20

Lab Sample ID: MB 880-8451/1-A

Matrix: Solid

Analysis Batch: 8555

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/01/21 14:21	1

Lab Sample ID: LCS 880-8451/2-A

Matrix: Solid

Analysis Batch: 8555

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	251	226.7		mg/Kg		90	90 - 110		

Lab Sample ID: LCSD 880-8451/3-A

Matrix: Solid

Analysis Batch: 8555

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	228.3		mg/Kg		91	90 - 110	1	20

Lab Sample ID: 880-6474-14 MS

Matrix: Solid

Analysis Batch: 8555

Client Sample ID: C-480

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	38.6		250	292.7		mg/Kg		102	90 - 110		

Lab Sample ID: 880-6474-14 MSD

Matrix: Solid

Analysis Batch: 8555

Client Sample ID: C-480

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	38.6		250	276.8		mg/Kg		95	90 - 110	6	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-6474-24 MS

Matrix: Solid

Analysis Batch: 8555

Client Sample ID: C-490

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	727	F1	249	932.6	F1	mg/Kg		82	90 - 110

Lab Sample ID: 880-6474-24 MSD

Matrix: Solid

Analysis Batch: 8555

Client Sample ID: C-490

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	727	F1	249	927.4	F1	mg/Kg		80	90 - 110	1	20

Lab Sample ID: MB 880-8452/1-A

Matrix: Solid

Analysis Batch: 8597

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/30/21 05:15	1

Lab Sample ID: LCS 880-8452/2-A

Matrix: Solid

Analysis Batch: 8597

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	266.7		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-8452/3-A

Matrix: Solid

Analysis Batch: 8597

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	267.5		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-6474-44 MS

Matrix: Solid

Analysis Batch: 8597

Client Sample ID: C-510

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	197		250	467.7		mg/Kg		108	90 - 110

Lab Sample ID: 880-6474-44 MSD

Matrix: Solid

Analysis Batch: 8597

Client Sample ID: C-510

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	197		250	469.2		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-6474-A-34-B MS

Matrix: Solid

Analysis Batch: 8597

Client Sample ID: 880-6474-A-34-B MS

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1226		248	1118		mg/Kg		-43	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-6474-A-34-C MSD

Matrix: Solid

Analysis Batch: 8597

Client Sample ID: 880-6474-A-34-C MSD

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1226		248	1119		mg/Kg		-43	90 - 110	0	20

Lab Sample ID: MB 880-8453/1-A

Matrix: Solid

Analysis Batch: 8598

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/30/21 19:28	1

Lab Sample ID: LCS 880-8453/2-A

Matrix: Solid

Analysis Batch: 8598

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-8453/3-A

Matrix: Solid

Analysis Batch: 8598

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	242.3		mg/Kg		97	90 - 110	2	20

Lab Sample ID: 880-6474-54 MS

Matrix: Solid

Analysis Batch: 8598

Client Sample ID: C-520

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	894		248	1130		mg/Kg		95	90 - 110

Lab Sample ID: 880-6474-54 MSD

Matrix: Solid

Analysis Batch: 8598

Client Sample ID: C-520

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	894		248	1128		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-6474-64 MS

Matrix: Solid

Analysis Batch: 8598

Client Sample ID: C-531

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	153		250	403.1		mg/Kg		100	90 - 110

Lab Sample ID: 880-6474-64 MSD

Matrix: Solid

Analysis Batch: 8598

Client Sample ID: C-531

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	153		250	399.1		mg/Kg		98	90 - 110	1	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8454/1-A

Matrix: Solid

Analysis Batch: 8600

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/30/21 23:04	1

Lab Sample ID: LCS 880-8454/2-A

Matrix: Solid

Analysis Batch: 8600

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	254.7		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-8454/3-A

Matrix: Solid

Analysis Batch: 8600

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	248.2		mg/Kg		99	90 - 110	3	20

Lab Sample ID: 880-6474-74 MS

Matrix: Solid

Analysis Batch: 8600

Client Sample ID: C-540

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	267		252	519.6		mg/Kg		100	90 - 110

Lab Sample ID: 880-6474-74 MSD

Matrix: Solid

Analysis Batch: 8600

Client Sample ID: C-540

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	267		252	523.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-6474-84 MS

Matrix: Solid

Analysis Batch: 8600

Client Sample ID: C-550

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	798	F1	249	973.4	F1	mg/Kg		70	90 - 110

Lab Sample ID: 880-6474-84 MSD

Matrix: Solid

Analysis Batch: 8600

Client Sample ID: C-550

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	798	F1	249	953.4	F1	mg/Kg		62	90 - 110	2	20

Lab Sample ID: MB 880-8455/1-A

Matrix: Solid

Analysis Batch: 8601

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/01/21 02:39	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-8455/2-A

Matrix: Solid

Analysis Batch: 8601

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	257.1		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-8455/3-A

Matrix: Solid

Analysis Batch: 8601

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.4		mg/Kg		100	90 - 110	3	20

Lab Sample ID: 880-6474-94 MS

Matrix: Solid

Analysis Batch: 8601

Client Sample ID: C-560

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	345		250	601.8		mg/Kg		103	90 - 110

Lab Sample ID: 880-6474-94 MSD

Matrix: Solid

Analysis Batch: 8601

Client Sample ID: C-560

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	345		250	591.1		mg/Kg		99	90 - 110	2	20

Lab Sample ID: 880-6474-104 MS

Matrix: Solid

Analysis Batch: 8601

Client Sample ID: C-570

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	294		250	544.2		mg/Kg		100	90 - 110

Lab Sample ID: 880-6474-104 MSD

Matrix: Solid

Analysis Batch: 8601

Client Sample ID: C-570

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	294		250	531.8		mg/Kg		95	90 - 110	2	20

Lab Sample ID: MB 880-8456/1-A

Matrix: Solid

Analysis Batch: 8602

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/01/21 08:25	1

Lab Sample ID: LCS 880-8456/2-A

Matrix: Solid

Analysis Batch: 8602

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	268.4		mg/Kg		107	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-8456/3-A

Matrix: Solid

Analysis Batch: 8602

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	268.7		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-6474-110 MS

Matrix: Solid

Analysis Batch: 8602

Client Sample ID: C-576

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	646		249	892.7		mg/Kg		99	90 - 110		

Lab Sample ID: 880-6474-110 MSD

Matrix: Solid

Analysis Batch: 8602

Client Sample ID: C-576

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	646		249	893.6		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-6474-120 MS

Matrix: Solid

Analysis Batch: 8602

Client Sample ID: C-587

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	197		250	460.6		mg/Kg		106	90 - 110		

Lab Sample ID: 880-6474-120 MSD

Matrix: Solid

Analysis Batch: 8602

Client Sample ID: C-587

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	197		250	463.4		mg/Kg		107	90 - 110	1	20

Lab Sample ID: MB 880-8478/1-A

Matrix: Solid

Analysis Batch: 8710

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/30/21 22:08	1

Lab Sample ID: LCS 880-8478/2-A

Matrix: Solid

Analysis Batch: 8710

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	226.7		mg/Kg		91	90 - 110		

Lab Sample ID: LCSD 880-8478/3-A

Matrix: Solid

Analysis Batch: 8710

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	271.9		mg/Kg		109	90 - 110	18	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-6474-124 MS

Matrix: Solid

Analysis Batch: 8710

Client Sample ID: C-591

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	514	F1	253	694.3	F1	mg/Kg		72	90 - 110		

Lab Sample ID: 880-6474-124 MSD

Matrix: Solid

Analysis Batch: 8710

Client Sample ID: C-591

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	514	F1	253	732.5	F1	mg/Kg		87	90 - 110	5	20

Lab Sample ID: 880-6474-134 MS

Matrix: Solid

Analysis Batch: 8710

Client Sample ID: C-601

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1190		250	1368	4	mg/Kg		70	90 - 110		

Lab Sample ID: 880-6474-134 MSD

Matrix: Solid

Analysis Batch: 8710

Client Sample ID: C-601

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1190		250	1413	4	mg/Kg		88	90 - 110	3	20

Lab Sample ID: MB 880-8479/1-A

Matrix: Solid

Analysis Batch: 8739

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/01/21 12:35	1

Lab Sample ID: LCS 880-8479/2-A

Matrix: Solid

Analysis Batch: 8739

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	248.6		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-8479/3-A

Matrix: Solid

Analysis Batch: 8739

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	248.0		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-6474-144 MS

Matrix: Solid

Analysis Batch: 8739

Client Sample ID: C-610

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	438		250	671.0		mg/Kg		93	90 - 110		

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-6474-144 MSD

Matrix: Solid

Analysis Batch: 8739

Client Sample ID: C-610

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	438		250	676.6		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-6474-154 MS

Matrix: Solid

Analysis Batch: 8739

Client Sample ID: C-620

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1140		248	1405	4	mg/Kg		107	90 - 110		

Lab Sample ID: 880-6474-154 MSD

Matrix: Solid

Analysis Batch: 8739

Client Sample ID: C-620

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1140		248	1401	4	mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-8480/1-A

Matrix: Solid

Analysis Batch: 8749

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/01/21 16:42	1

Lab Sample ID: LCS 880-8480/2-A

Matrix: Solid

Analysis Batch: 8749

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	247.5		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-8480/3-A

Matrix: Solid

Analysis Batch: 8749

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	246.7		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-6474-164 MS

Matrix: Solid

Analysis Batch: 8749

Client Sample ID: C-630

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	686	F1	250	837.6	F1	mg/Kg		61	90 - 110		

Lab Sample ID: 880-6474-164 MSD

Matrix: Solid

Analysis Batch: 8749

Client Sample ID: C-630

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	686	F1	250	838.0	F1	mg/Kg		61	90 - 110	0	20

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA

Prep Batch: 8508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8508/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-161	C-627	Total/NA	Solid	5035	
880-6474-162	C-628	Total/NA	Solid	5035	
880-6474-163	C-629	Total/NA	Solid	5035	
880-6474-164	C-630	Total/NA	Solid	5035	
880-6474-165	C-631	Total/NA	Solid	5035	
880-6474-166	C-632	Total/NA	Solid	5035	
MB 880-8517/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8517/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8517/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6451-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-6451-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 8518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-1	C-467	Total/NA	Solid	5035	
880-6474-2	C-468	Total/NA	Solid	5035	
880-6474-3	C-469	Total/NA	Solid	5035	
880-6474-4	C-470	Total/NA	Solid	5035	
880-6474-5	C-471	Total/NA	Solid	5035	
880-6474-6	C-472	Total/NA	Solid	5035	
880-6474-7	C-473	Total/NA	Solid	5035	
880-6474-8	C-474	Total/NA	Solid	5035	
880-6474-9	C-475	Total/NA	Solid	5035	
880-6474-10	C-476	Total/NA	Solid	5035	
880-6474-11	C-477	Total/NA	Solid	5035	
880-6474-12	C-478	Total/NA	Solid	5035	
880-6474-13	C-479	Total/NA	Solid	5035	
880-6474-14	C-480	Total/NA	Solid	5035	
880-6474-15	C-481	Total/NA	Solid	5035	
880-6474-16	C-482	Total/NA	Solid	5035	
880-6474-17	C-483	Total/NA	Solid	5035	
880-6474-18	C-484	Total/NA	Solid	5035	
880-6474-19	C-485	Total/NA	Solid	5035	
880-6474-20	C-486	Total/NA	Solid	5035	
MB 880-8518/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8518/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8518/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6474-1 MS	C-467	Total/NA	Solid	5035	
880-6474-1 MSD	C-467	Total/NA	Solid	5035	

Prep Batch: 8519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-21	C-487	Total/NA	Solid	5035	
880-6474-22	C-488	Total/NA	Solid	5035	
880-6474-23	C-489	Total/NA	Solid	5035	
880-6474-24	C-490	Total/NA	Solid	5035	
880-6474-25	C-491	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 8519 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-26	C-492	Total/NA	Solid	5035	
880-6474-27	C-493	Total/NA	Solid	5035	
880-6474-28	C-494	Total/NA	Solid	5035	
880-6474-29	C-495	Total/NA	Solid	5035	
880-6474-30	C-496	Total/NA	Solid	5035	
880-6474-31	C-497	Total/NA	Solid	5035	
880-6474-32	C-498	Total/NA	Solid	5035	
880-6474-33	C-499	Total/NA	Solid	5035	
880-6474-34	C-500	Total/NA	Solid	5035	
880-6474-35	C-501	Total/NA	Solid	5035	
880-6474-36	C-502	Total/NA	Solid	5035	
880-6474-37	C-503	Total/NA	Solid	5035	
880-6474-38	C-504	Total/NA	Solid	5035	
880-6474-39	C-505	Total/NA	Solid	5035	
880-6474-40	C-506	Total/NA	Solid	5035	
MB 880-8519/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8519/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8519/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6474-21 MS	C-487	Total/NA	Solid	5035	
880-6474-21 MSD	C-487	Total/NA	Solid	5035	

Prep Batch: 8520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-41	C-507	Total/NA	Solid	5035	
880-6474-42	C-508	Total/NA	Solid	5035	
880-6474-43	C-509	Total/NA	Solid	5035	
880-6474-44	C-510	Total/NA	Solid	5035	
880-6474-45	C-511	Total/NA	Solid	5035	
880-6474-46	C-512	Total/NA	Solid	5035	
880-6474-47	C-513	Total/NA	Solid	5035	
880-6474-48	C-514	Total/NA	Solid	5035	
880-6474-49	C-514	Total/NA	Solid	5035	
880-6474-50	C-516	Total/NA	Solid	5035	
880-6474-51	C-517	Total/NA	Solid	5035	
880-6474-52	C-518	Total/NA	Solid	5035	
880-6474-53	C-519	Total/NA	Solid	5035	
880-6474-54	C-520	Total/NA	Solid	5035	
880-6474-55	C-521	Total/NA	Solid	5035	
880-6474-56	C-522	Total/NA	Solid	5035	
880-6474-57	C-523	Total/NA	Solid	5035	
880-6474-58	C-524	Total/NA	Solid	5035	
880-6474-59	C-525	Total/NA	Solid	5035	
880-6474-60	C-526	Total/NA	Solid	5035	
MB 880-8520/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8520/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8520/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6474-41 MS	C-507	Total/NA	Solid	5035	
880-6474-41 MSD	C-507	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA

Prep Batch: 8521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-61	C-527	Total/NA	Solid	5035	
880-6474-62	C-528	Total/NA	Solid	5035	
880-6474-63	C-529	Total/NA	Solid	5035	
880-6474-64	C-531	Total/NA	Solid	5035	
880-6474-65	C-531	Total/NA	Solid	5035	
880-6474-66	C-532	Total/NA	Solid	5035	
880-6474-67	C-533	Total/NA	Solid	5035	
880-6474-68	C-534	Total/NA	Solid	5035	
880-6474-69	C-535	Total/NA	Solid	5035	
880-6474-70	C-536	Total/NA	Solid	5035	
880-6474-71	C-537	Total/NA	Solid	5035	
880-6474-72	C-538	Total/NA	Solid	5035	
880-6474-73	C-539	Total/NA	Solid	5035	
880-6474-74	C-540	Total/NA	Solid	5035	
880-6474-75	C-541	Total/NA	Solid	5035	
880-6474-76	C-542	Total/NA	Solid	5035	
880-6474-77	C-543	Total/NA	Solid	5035	
880-6474-78	C-544	Total/NA	Solid	5035	
880-6474-79	C-545	Total/NA	Solid	5035	
880-6474-80	C-546	Total/NA	Solid	5035	
MB 880-8521/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8521/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8521/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6474-61 MS	C-527	Total/NA	Solid	5035	
880-6474-61 MSD	C-527	Total/NA	Solid	5035	

Prep Batch: 8522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-81	C-547	Total/NA	Solid	5035	
880-6474-82	C-548	Total/NA	Solid	5035	
880-6474-83	C-549	Total/NA	Solid	5035	
880-6474-84	C-550	Total/NA	Solid	5035	
880-6474-85	C-551	Total/NA	Solid	5035	
880-6474-86	C-552	Total/NA	Solid	5035	
880-6474-87	C-553	Total/NA	Solid	5035	
880-6474-88	C-554	Total/NA	Solid	5035	
880-6474-89	C-555	Total/NA	Solid	5035	
880-6474-90	C-556	Total/NA	Solid	5035	
880-6474-91	C-557	Total/NA	Solid	5035	
880-6474-92	C-558	Total/NA	Solid	5035	
880-6474-93	C-559	Total/NA	Solid	5035	
880-6474-94	C-560	Total/NA	Solid	5035	
880-6474-95	C-561	Total/NA	Solid	5035	
880-6474-96	C-562	Total/NA	Solid	5035	
880-6474-97	C-563	Total/NA	Solid	5035	
880-6474-98	C-564	Total/NA	Solid	5035	
880-6474-99	C-565	Total/NA	Solid	5035	
880-6474-100	C-566	Total/NA	Solid	5035	
MB 880-8522/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8522/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8522/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 8522 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-81 MS	C-547	Total/NA	Solid	5035	
880-6474-81 MSD	C-547	Total/NA	Solid	5035	

Prep Batch: 8523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-101	C-567	Total/NA	Solid	5035	
880-6474-102	C-568	Total/NA	Solid	5035	
880-6474-103	C-569	Total/NA	Solid	5035	
880-6474-104	C-570	Total/NA	Solid	5035	
880-6474-105	C-571	Total/NA	Solid	5035	
880-6474-106	C-572	Total/NA	Solid	5035	
880-6474-107	C-573	Total/NA	Solid	5035	
880-6474-108	C-574	Total/NA	Solid	5035	
880-6474-109	C-575	Total/NA	Solid	5035	
880-6474-110	C-576	Total/NA	Solid	5035	
880-6474-111	C-578	Total/NA	Solid	5035	
880-6474-112	C-579	Total/NA	Solid	5035	
880-6474-113	C-580	Total/NA	Solid	5035	
880-6474-114	C-581	Total/NA	Solid	5035	
880-6474-115	C-582	Total/NA	Solid	5035	
880-6474-116	C-583	Total/NA	Solid	5035	
880-6474-117	C-584	Total/NA	Solid	5035	
880-6474-118	C-585	Total/NA	Solid	5035	
880-6474-119	C-586	Total/NA	Solid	5035	
880-6474-120	C-587	Total/NA	Solid	5035	
MB 880-8523/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8523/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8523/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6474-101 MS	C-567	Total/NA	Solid	5035	
880-6474-101 MSD	C-567	Total/NA	Solid	5035	

Prep Batch: 8524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-121	C-588	Total/NA	Solid	5035	
880-6474-122	C-589	Total/NA	Solid	5035	
880-6474-123	C-590	Total/NA	Solid	5035	
880-6474-124	C-591	Total/NA	Solid	5035	
880-6474-125	C-592	Total/NA	Solid	5035	
880-6474-126	C-593	Total/NA	Solid	5035	
880-6474-127	C-594	Total/NA	Solid	5035	
880-6474-128	C-595	Total/NA	Solid	5035	
880-6474-129	C-596	Total/NA	Solid	5035	
880-6474-130	C-597	Total/NA	Solid	5035	
880-6474-131	C-598	Total/NA	Solid	5035	
880-6474-132	C-599	Total/NA	Solid	5035	
880-6474-133	C-600	Total/NA	Solid	5035	
880-6474-134	C-601	Total/NA	Solid	5035	
880-6474-135	C-602	Total/NA	Solid	5035	
880-6474-136	C-603	Total/NA	Solid	5035	
880-6474-137	C-604	Total/NA	Solid	5035	
880-6474-138	C-605	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 8524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-139	C-606	Total/NA	Solid	5035	
880-6474-140	C-607	Total/NA	Solid	5035	
MB 880-8524/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8524/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8524/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6474-121 MS	C-588	Total/NA	Solid	5035	
880-6474-121 MSD	C-588	Total/NA	Solid	5035	

Prep Batch: 8526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-141	C-607-2	Total/NA	Solid	5035	
880-6474-142	C-608	Total/NA	Solid	5035	
880-6474-143	C-609	Total/NA	Solid	5035	
880-6474-144	C-610	Total/NA	Solid	5035	
880-6474-145	C-611	Total/NA	Solid	5035	
880-6474-146	C-612	Total/NA	Solid	5035	
880-6474-147	C-613	Total/NA	Solid	5035	
880-6474-148	C-614	Total/NA	Solid	5035	
880-6474-149	C-615	Total/NA	Solid	5035	
880-6474-150	C-616	Total/NA	Solid	5035	
880-6474-151	C-617	Total/NA	Solid	5035	
880-6474-152	C-618	Total/NA	Solid	5035	
880-6474-153	C-619	Total/NA	Solid	5035	
880-6474-154	C-620	Total/NA	Solid	5035	
880-6474-155	C-621	Total/NA	Solid	5035	
880-6474-156	C-622	Total/NA	Solid	5035	
880-6474-157	C-623	Total/NA	Solid	5035	
880-6474-158	C-624	Total/NA	Solid	5035	
880-6474-159	C-625	Total/NA	Solid	5035	
880-6474-160	C-626	Total/NA	Solid	5035	
MB 880-8526/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8526/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8526/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6474-141 MS	C-607-2	Total/NA	Solid	5035	
880-6474-141 MSD	C-607-2	Total/NA	Solid	5035	

Prep Batch: 8532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8532/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8537/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 8572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-1	C-467	Total/NA	Solid	8021B	8518
880-6474-2	C-468	Total/NA	Solid	8021B	8518
880-6474-3	C-469	Total/NA	Solid	8021B	8518
880-6474-4	C-470	Total/NA	Solid	8021B	8518
880-6474-5	C-471	Total/NA	Solid	8021B	8518

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-6	C-472	Total/NA	Solid	8021B	8518
880-6474-7	C-473	Total/NA	Solid	8021B	8518
880-6474-8	C-474	Total/NA	Solid	8021B	8518
880-6474-9	C-475	Total/NA	Solid	8021B	8518
880-6474-10	C-476	Total/NA	Solid	8021B	8518
880-6474-11	C-477	Total/NA	Solid	8021B	8518
880-6474-12	C-478	Total/NA	Solid	8021B	8518
880-6474-13	C-479	Total/NA	Solid	8021B	8518
880-6474-14	C-480	Total/NA	Solid	8021B	8518
880-6474-15	C-481	Total/NA	Solid	8021B	8518
880-6474-16	C-482	Total/NA	Solid	8021B	8518
880-6474-17	C-483	Total/NA	Solid	8021B	8518
880-6474-18	C-484	Total/NA	Solid	8021B	8518
880-6474-19	C-485	Total/NA	Solid	8021B	8518
880-6474-20	C-486	Total/NA	Solid	8021B	8518
880-6474-161	C-627	Total/NA	Solid	8021B	8517
880-6474-162	C-628	Total/NA	Solid	8021B	8517
880-6474-163	C-629	Total/NA	Solid	8021B	8517
880-6474-164	C-630	Total/NA	Solid	8021B	8517
880-6474-165	C-631	Total/NA	Solid	8021B	8517
880-6474-166	C-632	Total/NA	Solid	8021B	8517
MB 880-8517/5-A	Method Blank	Total/NA	Solid	8021B	8517
MB 880-8518/5-A	Method Blank	Total/NA	Solid	8021B	8518
LCS 880-8517/1-A	Lab Control Sample	Total/NA	Solid	8021B	8517
LCS 880-8518/1-A	Lab Control Sample	Total/NA	Solid	8021B	8518
LCSD 880-8517/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8517
LCSD 880-8518/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8518
880-6451-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	8517
880-6451-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8517
880-6474-1 MS	C-467	Total/NA	Solid	8021B	8518
880-6474-1 MSD	C-467	Total/NA	Solid	8021B	8518

Analysis Batch: 8607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-164	C-630	Total/NA	Solid	8021B	8517
880-6474-165	C-631	Total/NA	Solid	8021B	8517
880-6474-166	C-632	Total/NA	Solid	8021B	8517

Analysis Batch: 8636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-61	C-527	Total/NA	Solid	8021B	8521
880-6474-62	C-528	Total/NA	Solid	8021B	8521
880-6474-63	C-529	Total/NA	Solid	8021B	8521
880-6474-64	C-531	Total/NA	Solid	8021B	8521
880-6474-65	C-531	Total/NA	Solid	8021B	8521
880-6474-66	C-532	Total/NA	Solid	8021B	8521
880-6474-67	C-533	Total/NA	Solid	8021B	8521
880-6474-68	C-534	Total/NA	Solid	8021B	8521
880-6474-69	C-535	Total/NA	Solid	8021B	8521
880-6474-70	C-536	Total/NA	Solid	8021B	8521
880-6474-70	C-536	Total/NA	Solid	8021B	8521

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8636 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-71	C-537	Total/NA	Solid	8021B	8521
880-6474-72	C-538	Total/NA	Solid	8021B	8521
880-6474-73	C-539	Total/NA	Solid	8021B	8521
880-6474-74	C-540	Total/NA	Solid	8021B	8521
880-6474-75	C-541	Total/NA	Solid	8021B	8521
880-6474-76	C-542	Total/NA	Solid	8021B	8521
880-6474-77	C-543	Total/NA	Solid	8021B	8521
880-6474-78	C-544	Total/NA	Solid	8021B	8521
880-6474-79	C-545	Total/NA	Solid	8021B	8521
880-6474-80	C-546	Total/NA	Solid	8021B	8521
MB 880-8521/5-A	Method Blank	Total/NA	Solid	8021B	8521
MB 880-8537/5-A	Method Blank	Total/NA	Solid	8021B	8537
LCS 880-8521/1-A	Lab Control Sample	Total/NA	Solid	8021B	8521
LCSD 880-8521/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8521
880-6474-61 MS	C-527	Total/NA	Solid	8021B	8521
880-6474-61 MSD	C-527	Total/NA	Solid	8021B	8521

Analysis Batch: 8637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-81	C-547	Total/NA	Solid	8021B	8522
880-6474-82	C-548	Total/NA	Solid	8021B	8522
880-6474-83	C-549	Total/NA	Solid	8021B	8522
880-6474-84	C-550	Total/NA	Solid	8021B	8522
880-6474-85	C-551	Total/NA	Solid	8021B	8522
880-6474-86	C-552	Total/NA	Solid	8021B	8522
880-6474-87	C-553	Total/NA	Solid	8021B	8522
880-6474-88	C-554	Total/NA	Solid	8021B	8522
880-6474-89	C-555	Total/NA	Solid	8021B	8522
880-6474-90	C-556	Total/NA	Solid	8021B	8522
880-6474-91	C-557	Total/NA	Solid	8021B	8522
880-6474-92	C-558	Total/NA	Solid	8021B	8522
880-6474-93	C-559	Total/NA	Solid	8021B	8522
880-6474-94	C-560	Total/NA	Solid	8021B	8522
880-6474-95	C-561	Total/NA	Solid	8021B	8522
880-6474-96	C-562	Total/NA	Solid	8021B	8522
880-6474-97	C-563	Total/NA	Solid	8021B	8522
880-6474-98	C-564	Total/NA	Solid	8021B	8522
880-6474-99	C-565	Total/NA	Solid	8021B	8522
880-6474-100	C-566	Total/NA	Solid	8021B	8522
MB 880-8522/5-A	Method Blank	Total/NA	Solid	8021B	8522
MB 880-8532/5-A	Method Blank	Total/NA	Solid	8021B	8532
LCS 880-8522/1-A	Lab Control Sample	Total/NA	Solid	8021B	8522
LCSD 880-8522/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8522
880-6474-81 MS	C-547	Total/NA	Solid	8021B	8522
880-6474-81 MSD	C-547	Total/NA	Solid	8021B	8522

Analysis Batch: 8644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-21	C-487	Total/NA	Solid	8021B	8519
880-6474-22	C-488	Total/NA	Solid	8021B	8519
880-6474-23	C-489	Total/NA	Solid	8021B	8519

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8644 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-24	C-490	Total/NA	Solid	8021B	8519
880-6474-25	C-491	Total/NA	Solid	8021B	8519
880-6474-26	C-492	Total/NA	Solid	8021B	8519
880-6474-27	C-493	Total/NA	Solid	8021B	8519
880-6474-28	C-494	Total/NA	Solid	8021B	8519
880-6474-29	C-495	Total/NA	Solid	8021B	8519
880-6474-30	C-496	Total/NA	Solid	8021B	8519
880-6474-31	C-497	Total/NA	Solid	8021B	8519
880-6474-32	C-498	Total/NA	Solid	8021B	8519
880-6474-33	C-499	Total/NA	Solid	8021B	8519
880-6474-34	C-500	Total/NA	Solid	8021B	8519
880-6474-35	C-501	Total/NA	Solid	8021B	8519
880-6474-36	C-502	Total/NA	Solid	8021B	8519
880-6474-37	C-503	Total/NA	Solid	8021B	8519
880-6474-38	C-504	Total/NA	Solid	8021B	8519
880-6474-39	C-505	Total/NA	Solid	8021B	8519
880-6474-40	C-506	Total/NA	Solid	8021B	8519
MB 880-8508/5-A	Method Blank	Total/NA	Solid	8021B	8508
MB 880-8519/5-A	Method Blank	Total/NA	Solid	8021B	8519
LCS 880-8519/1-A	Lab Control Sample	Total/NA	Solid	8021B	8519
LCSD 880-8519/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8519
880-6474-21 MS	C-487	Total/NA	Solid	8021B	8519
880-6474-21 MSD	C-487	Total/NA	Solid	8021B	8519

Analysis Batch: 8646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-61	C-527	Total/NA	Solid	Total BTEX	
880-6474-62	C-528	Total/NA	Solid	Total BTEX	
880-6474-63	C-529	Total/NA	Solid	Total BTEX	
880-6474-64	C-531	Total/NA	Solid	Total BTEX	
880-6474-65	C-531	Total/NA	Solid	Total BTEX	
880-6474-66	C-532	Total/NA	Solid	Total BTEX	
880-6474-67	C-533	Total/NA	Solid	Total BTEX	
880-6474-68	C-534	Total/NA	Solid	Total BTEX	
880-6474-69	C-535	Total/NA	Solid	Total BTEX	
880-6474-70	C-536	Total/NA	Solid	Total BTEX	
880-6474-71	C-537	Total/NA	Solid	Total BTEX	
880-6474-72	C-538	Total/NA	Solid	Total BTEX	
880-6474-73	C-539	Total/NA	Solid	Total BTEX	
880-6474-74	C-540	Total/NA	Solid	Total BTEX	
880-6474-75	C-541	Total/NA	Solid	Total BTEX	
880-6474-76	C-542	Total/NA	Solid	Total BTEX	
880-6474-77	C-543	Total/NA	Solid	Total BTEX	
880-6474-78	C-544	Total/NA	Solid	Total BTEX	
880-6474-79	C-545	Total/NA	Solid	Total BTEX	
880-6474-80	C-546	Total/NA	Solid	Total BTEX	

Analysis Batch: 8647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-81	C-547	Total/NA	Solid	Total BTEX	
880-6474-82	C-548	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-83	C-549	Total/NA	Solid	Total BTEX	
880-6474-84	C-550	Total/NA	Solid	Total BTEX	
880-6474-85	C-551	Total/NA	Solid	Total BTEX	
880-6474-86	C-552	Total/NA	Solid	Total BTEX	
880-6474-87	C-553	Total/NA	Solid	Total BTEX	
880-6474-88	C-554	Total/NA	Solid	Total BTEX	
880-6474-89	C-555	Total/NA	Solid	Total BTEX	
880-6474-90	C-556	Total/NA	Solid	Total BTEX	
880-6474-91	C-557	Total/NA	Solid	Total BTEX	
880-6474-92	C-558	Total/NA	Solid	Total BTEX	
880-6474-93	C-559	Total/NA	Solid	Total BTEX	
880-6474-94	C-560	Total/NA	Solid	Total BTEX	
880-6474-95	C-561	Total/NA	Solid	Total BTEX	
880-6474-96	C-562	Total/NA	Solid	Total BTEX	
880-6474-97	C-563	Total/NA	Solid	Total BTEX	
880-6474-98	C-564	Total/NA	Solid	Total BTEX	
880-6474-99	C-565	Total/NA	Solid	Total BTEX	
880-6474-100	C-566	Total/NA	Solid	Total BTEX	

Prep Batch: 8648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8648/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8649/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 8696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-142	C-608	Total/NA	Solid	Total BTEX	
880-6474-143	C-609	Total/NA	Solid	Total BTEX	
880-6474-144	C-610	Total/NA	Solid	Total BTEX	
880-6474-145	C-611	Total/NA	Solid	Total BTEX	
880-6474-146	C-612	Total/NA	Solid	Total BTEX	
880-6474-147	C-613	Total/NA	Solid	Total BTEX	
880-6474-148	C-614	Total/NA	Solid	Total BTEX	
880-6474-149	C-615	Total/NA	Solid	Total BTEX	
880-6474-150	C-616	Total/NA	Solid	Total BTEX	
880-6474-153	C-619	Total/NA	Solid	Total BTEX	
880-6474-154	C-620	Total/NA	Solid	Total BTEX	
880-6474-155	C-621	Total/NA	Solid	Total BTEX	
880-6474-156	C-622	Total/NA	Solid	Total BTEX	
880-6474-157	C-623	Total/NA	Solid	Total BTEX	
880-6474-158	C-624	Total/NA	Solid	Total BTEX	
880-6474-159	C-625	Total/NA	Solid	Total BTEX	
880-6474-160	C-626	Total/NA	Solid	Total BTEX	
880-6474-161	C-627	Total/NA	Solid	Total BTEX	
880-6474-162	C-628	Total/NA	Solid	Total BTEX	
880-6474-163	C-629	Total/NA	Solid	Total BTEX	
880-6474-164	C-630	Total/NA	Solid	Total BTEX	
880-6474-165	C-631	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8696 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-166	C-632	Total/NA	Solid	Total BTEX	

Analysis Batch: 8712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-121	C-588	Total/NA	Solid	8021B	8524
880-6474-122	C-589	Total/NA	Solid	8021B	8524
880-6474-123	C-590	Total/NA	Solid	8021B	8524
880-6474-124	C-591	Total/NA	Solid	8021B	8524
880-6474-125	C-592	Total/NA	Solid	8021B	8524
880-6474-126	C-593	Total/NA	Solid	8021B	8524
880-6474-127	C-594	Total/NA	Solid	8021B	8524
880-6474-128	C-595	Total/NA	Solid	8021B	8524
880-6474-129	C-596	Total/NA	Solid	8021B	8524
880-6474-130	C-597	Total/NA	Solid	8021B	8524
880-6474-131	C-598	Total/NA	Solid	8021B	8524
880-6474-132	C-599	Total/NA	Solid	8021B	8524
880-6474-133	C-600	Total/NA	Solid	8021B	8524
880-6474-134	C-601	Total/NA	Solid	8021B	8524
880-6474-135	C-602	Total/NA	Solid	8021B	8524
880-6474-136	C-603	Total/NA	Solid	8021B	8524
880-6474-137	C-604	Total/NA	Solid	8021B	8524
880-6474-138	C-605	Total/NA	Solid	8021B	8524
880-6474-139	C-606	Total/NA	Solid	8021B	8524
880-6474-140	C-607	Total/NA	Solid	8021B	8524
MB 880-8524/5-A	Method Blank	Total/NA	Solid	8021B	8524
MB 880-8648/5-A	Method Blank	Total/NA	Solid	8021B	8648
LCS 880-8524/1-A	Lab Control Sample	Total/NA	Solid	8021B	8524
LCSD 880-8524/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8524
880-6474-121 MS	C-588	Total/NA	Solid	8021B	8524
880-6474-121 MSD	C-588	Total/NA	Solid	8021B	8524

Analysis Batch: 8713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-141	C-607-2	Total/NA	Solid	8021B	8526
880-6474-142	C-608	Total/NA	Solid	8021B	8526
880-6474-143	C-609	Total/NA	Solid	8021B	8526
880-6474-144	C-610	Total/NA	Solid	8021B	8526
880-6474-145	C-611	Total/NA	Solid	8021B	8526
880-6474-146	C-612	Total/NA	Solid	8021B	8526
880-6474-147	C-613	Total/NA	Solid	8021B	8526
880-6474-148	C-614	Total/NA	Solid	8021B	8526
880-6474-149	C-615	Total/NA	Solid	8021B	8526
880-6474-150	C-616	Total/NA	Solid	8021B	8526
880-6474-151	C-617	Total/NA	Solid	8021B	8526
880-6474-152	C-618	Total/NA	Solid	8021B	8526
880-6474-153	C-619	Total/NA	Solid	8021B	8526
880-6474-154	C-620	Total/NA	Solid	8021B	8526
880-6474-155	C-621	Total/NA	Solid	8021B	8526
880-6474-156	C-622	Total/NA	Solid	8021B	8526
880-6474-157	C-623	Total/NA	Solid	8021B	8526
880-6474-158	C-624	Total/NA	Solid	8021B	8526

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8713 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-159	C-625	Total/NA	Solid	8021B	8526
880-6474-160	C-626	Total/NA	Solid	8021B	8526
MB 880-8526/5-A	Method Blank	Total/NA	Solid	8021B	8526
MB 880-8649/5-A	Method Blank	Total/NA	Solid	8021B	8649
LCS 880-8526/1-A	Lab Control Sample	Total/NA	Solid	8021B	8526
LCSD 880-8526/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8526
880-6474-141 MS	C-607-2	Total/NA	Solid	8021B	8526
880-6474-141 MSD	C-607-2	Total/NA	Solid	8021B	8526

Analysis Batch: 8714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-21	C-487	Total/NA	Solid	Total BTEX	
880-6474-22	C-488	Total/NA	Solid	Total BTEX	
880-6474-23	C-489	Total/NA	Solid	Total BTEX	
880-6474-24	C-490	Total/NA	Solid	Total BTEX	
880-6474-25	C-491	Total/NA	Solid	Total BTEX	
880-6474-26	C-492	Total/NA	Solid	Total BTEX	
880-6474-27	C-493	Total/NA	Solid	Total BTEX	
880-6474-28	C-494	Total/NA	Solid	Total BTEX	
880-6474-29	C-495	Total/NA	Solid	Total BTEX	
880-6474-30	C-496	Total/NA	Solid	Total BTEX	
880-6474-31	C-497	Total/NA	Solid	Total BTEX	
880-6474-32	C-498	Total/NA	Solid	Total BTEX	
880-6474-33	C-499	Total/NA	Solid	Total BTEX	
880-6474-34	C-500	Total/NA	Solid	Total BTEX	
880-6474-35	C-501	Total/NA	Solid	Total BTEX	
880-6474-36	C-502	Total/NA	Solid	Total BTEX	
880-6474-37	C-503	Total/NA	Solid	Total BTEX	
880-6474-38	C-504	Total/NA	Solid	Total BTEX	
880-6474-39	C-505	Total/NA	Solid	Total BTEX	
880-6474-40	C-506	Total/NA	Solid	Total BTEX	

Analysis Batch: 8717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-121	C-588	Total/NA	Solid	Total BTEX	
880-6474-122	C-589	Total/NA	Solid	Total BTEX	
880-6474-123	C-590	Total/NA	Solid	Total BTEX	
880-6474-124	C-591	Total/NA	Solid	Total BTEX	
880-6474-125	C-592	Total/NA	Solid	Total BTEX	
880-6474-126	C-593	Total/NA	Solid	Total BTEX	
880-6474-127	C-594	Total/NA	Solid	Total BTEX	
880-6474-128	C-595	Total/NA	Solid	Total BTEX	
880-6474-129	C-596	Total/NA	Solid	Total BTEX	
880-6474-130	C-597	Total/NA	Solid	Total BTEX	
880-6474-131	C-598	Total/NA	Solid	Total BTEX	
880-6474-132	C-599	Total/NA	Solid	Total BTEX	
880-6474-133	C-600	Total/NA	Solid	Total BTEX	
880-6474-134	C-601	Total/NA	Solid	Total BTEX	
880-6474-135	C-602	Total/NA	Solid	Total BTEX	
880-6474-136	C-603	Total/NA	Solid	Total BTEX	
880-6474-137	C-604	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-138	C-605	Total/NA	Solid	Total BTEX	
880-6474-139	C-606	Total/NA	Solid	Total BTEX	
880-6474-140	C-607	Total/NA	Solid	Total BTEX	

Analysis Batch: 8722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-41	C-507	Total/NA	Solid	8021B	8520
880-6474-42	C-508	Total/NA	Solid	8021B	8520
880-6474-43	C-509	Total/NA	Solid	8021B	8520
880-6474-44	C-510	Total/NA	Solid	8021B	8520
880-6474-45	C-511	Total/NA	Solid	8021B	8520
880-6474-46	C-512	Total/NA	Solid	8021B	8520
880-6474-47	C-513	Total/NA	Solid	8021B	8520
880-6474-48	C-514	Total/NA	Solid	8021B	8520
880-6474-49	C-514	Total/NA	Solid	8021B	8520
880-6474-50	C-516	Total/NA	Solid	8021B	8520
880-6474-51	C-517	Total/NA	Solid	8021B	8520
880-6474-52	C-518	Total/NA	Solid	8021B	8520
880-6474-53	C-519	Total/NA	Solid	8021B	8520
880-6474-54	C-520	Total/NA	Solid	8021B	8520
880-6474-55	C-521	Total/NA	Solid	8021B	8520
880-6474-56	C-522	Total/NA	Solid	8021B	8520
880-6474-57	C-523	Total/NA	Solid	8021B	8520
880-6474-58	C-524	Total/NA	Solid	8021B	8520
880-6474-59	C-525	Total/NA	Solid	8021B	8520
880-6474-60	C-526	Total/NA	Solid	8021B	8520
880-6474-101	C-567	Total/NA	Solid	8021B	8523
880-6474-102	C-568	Total/NA	Solid	8021B	8523
880-6474-103	C-569	Total/NA	Solid	8021B	8523
880-6474-104	C-570	Total/NA	Solid	8021B	8523
880-6474-105	C-571	Total/NA	Solid	8021B	8523
880-6474-106	C-572	Total/NA	Solid	8021B	8523
880-6474-107	C-573	Total/NA	Solid	8021B	8523
880-6474-108	C-574	Total/NA	Solid	8021B	8523
880-6474-109	C-575	Total/NA	Solid	8021B	8523
880-6474-110	C-576	Total/NA	Solid	8021B	8523
880-6474-111	C-578	Total/NA	Solid	8021B	8523
880-6474-112	C-579	Total/NA	Solid	8021B	8523
880-6474-113	C-580	Total/NA	Solid	8021B	8523
880-6474-114	C-581	Total/NA	Solid	8021B	8523
880-6474-115	C-582	Total/NA	Solid	8021B	8523
880-6474-116	C-583	Total/NA	Solid	8021B	8523
880-6474-117	C-584	Total/NA	Solid	8021B	8523
880-6474-118	C-585	Total/NA	Solid	8021B	8523
880-6474-119	C-586	Total/NA	Solid	8021B	8523
880-6474-120	C-587	Total/NA	Solid	8021B	8523
MB 880-8520/5-A	Method Blank	Total/NA	Solid	8021B	8520
MB 880-8523/5-A	Method Blank	Total/NA	Solid	8021B	8523
LCS 880-8520/1-A	Lab Control Sample	Total/NA	Solid	8021B	8520
LCS 880-8523/1-A	Lab Control Sample	Total/NA	Solid	8021B	8523
LCSD 880-8520/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8520

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8722 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-8523/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8523
880-6474-41 MS	C-507	Total/NA	Solid	8021B	8520
880-6474-41 MSD	C-507	Total/NA	Solid	8021B	8520
880-6474-101 MS	C-567	Total/NA	Solid	8021B	8523
880-6474-101 MSD	C-567	Total/NA	Solid	8021B	8523

Analysis Batch: 8723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-141	C-607-2	Total/NA	Solid	Total BTEX	
880-6474-151	C-617	Total/NA	Solid	Total BTEX	
880-6474-152	C-618	Total/NA	Solid	Total BTEX	

Analysis Batch: 8862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-1	C-467	Total/NA	Solid	Total BTEX	
880-6474-2	C-468	Total/NA	Solid	Total BTEX	
880-6474-3	C-469	Total/NA	Solid	Total BTEX	
880-6474-4	C-470	Total/NA	Solid	Total BTEX	
880-6474-5	C-471	Total/NA	Solid	Total BTEX	
880-6474-6	C-472	Total/NA	Solid	Total BTEX	
880-6474-7	C-473	Total/NA	Solid	Total BTEX	
880-6474-8	C-474	Total/NA	Solid	Total BTEX	
880-6474-9	C-475	Total/NA	Solid	Total BTEX	
880-6474-10	C-476	Total/NA	Solid	Total BTEX	
880-6474-11	C-477	Total/NA	Solid	Total BTEX	
880-6474-12	C-478	Total/NA	Solid	Total BTEX	
880-6474-13	C-479	Total/NA	Solid	Total BTEX	
880-6474-14	C-480	Total/NA	Solid	Total BTEX	
880-6474-15	C-481	Total/NA	Solid	Total BTEX	
880-6474-16	C-482	Total/NA	Solid	Total BTEX	
880-6474-17	C-483	Total/NA	Solid	Total BTEX	
880-6474-18	C-484	Total/NA	Solid	Total BTEX	
880-6474-19	C-485	Total/NA	Solid	Total BTEX	
880-6474-20	C-486	Total/NA	Solid	Total BTEX	
880-6474-41	C-507	Total/NA	Solid	Total BTEX	
880-6474-42	C-508	Total/NA	Solid	Total BTEX	
880-6474-43	C-509	Total/NA	Solid	Total BTEX	
880-6474-44	C-510	Total/NA	Solid	Total BTEX	
880-6474-45	C-511	Total/NA	Solid	Total BTEX	
880-6474-46	C-512	Total/NA	Solid	Total BTEX	
880-6474-47	C-513	Total/NA	Solid	Total BTEX	
880-6474-48	C-514	Total/NA	Solid	Total BTEX	
880-6474-49	C-514	Total/NA	Solid	Total BTEX	
880-6474-50	C-516	Total/NA	Solid	Total BTEX	
880-6474-51	C-517	Total/NA	Solid	Total BTEX	
880-6474-52	C-518	Total/NA	Solid	Total BTEX	
880-6474-53	C-519	Total/NA	Solid	Total BTEX	
880-6474-54	C-520	Total/NA	Solid	Total BTEX	
880-6474-55	C-521	Total/NA	Solid	Total BTEX	
880-6474-56	C-522	Total/NA	Solid	Total BTEX	
880-6474-57	C-523	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8862 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-58	C-524	Total/NA	Solid	Total BTEX	
880-6474-59	C-525	Total/NA	Solid	Total BTEX	
880-6474-60	C-526	Total/NA	Solid	Total BTEX	
880-6474-101	C-567	Total/NA	Solid	Total BTEX	
880-6474-102	C-568	Total/NA	Solid	Total BTEX	
880-6474-103	C-569	Total/NA	Solid	Total BTEX	
880-6474-104	C-570	Total/NA	Solid	Total BTEX	
880-6474-105	C-571	Total/NA	Solid	Total BTEX	
880-6474-106	C-572	Total/NA	Solid	Total BTEX	
880-6474-107	C-573	Total/NA	Solid	Total BTEX	
880-6474-108	C-574	Total/NA	Solid	Total BTEX	
880-6474-109	C-575	Total/NA	Solid	Total BTEX	
880-6474-110	C-576	Total/NA	Solid	Total BTEX	
880-6474-111	C-578	Total/NA	Solid	Total BTEX	
880-6474-112	C-579	Total/NA	Solid	Total BTEX	
880-6474-113	C-580	Total/NA	Solid	Total BTEX	
880-6474-114	C-581	Total/NA	Solid	Total BTEX	
880-6474-115	C-582	Total/NA	Solid	Total BTEX	
880-6474-116	C-583	Total/NA	Solid	Total BTEX	
880-6474-117	C-584	Total/NA	Solid	Total BTEX	
880-6474-118	C-585	Total/NA	Solid	Total BTEX	
880-6474-119	C-586	Total/NA	Solid	Total BTEX	
880-6474-120	C-587	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 8429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-161	C-627	Total/NA	Solid	8015B NM	8485
880-6474-162	C-628	Total/NA	Solid	8015B NM	8485
880-6474-163	C-629	Total/NA	Solid	8015B NM	8485
880-6474-164	C-630	Total/NA	Solid	8015B NM	8485
880-6474-165	C-631	Total/NA	Solid	8015B NM	8485
880-6474-166	C-632	Total/NA	Solid	8015B NM	8485
MB 880-8485/1-A	Method Blank	Total/NA	Solid	8015B NM	8485
LCS 880-8485/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8485
LCSD 880-8485/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8485
880-6505-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	8485
880-6505-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8485

Analysis Batch: 8431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-21	C-487	Total/NA	Solid	8015B NM	8463
880-6474-22	C-488	Total/NA	Solid	8015B NM	8463
880-6474-23	C-489	Total/NA	Solid	8015B NM	8463
880-6474-24	C-490	Total/NA	Solid	8015B NM	8463
880-6474-25	C-491	Total/NA	Solid	8015B NM	8463
880-6474-26	C-492	Total/NA	Solid	8015B NM	8463
880-6474-27	C-493	Total/NA	Solid	8015B NM	8463
880-6474-28	C-494	Total/NA	Solid	8015B NM	8463
880-6474-29	C-495	Total/NA	Solid	8015B NM	8463

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8431 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-30	C-496	Total/NA	Solid	8015B NM	8463
880-6474-31	C-497	Total/NA	Solid	8015B NM	8463
880-6474-32	C-498	Total/NA	Solid	8015B NM	8463
880-6474-33	C-499	Total/NA	Solid	8015B NM	8463
880-6474-34	C-500	Total/NA	Solid	8015B NM	8463
880-6474-35	C-501	Total/NA	Solid	8015B NM	8463
880-6474-36	C-502	Total/NA	Solid	8015B NM	8463
880-6474-37	C-503	Total/NA	Solid	8015B NM	8463
880-6474-38	C-504	Total/NA	Solid	8015B NM	8463
880-6474-39	C-505	Total/NA	Solid	8015B NM	8463
880-6474-40	C-506	Total/NA	Solid	8015B NM	8463
MB 880-8463/1-A	Method Blank	Total/NA	Solid	8015B NM	8463
LCS 880-8463/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8463
LCSD 880-8463/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8463
880-6474-21 MS	C-487	Total/NA	Solid	8015B NM	8463
880-6474-21 MSD	C-487	Total/NA	Solid	8015B NM	8463

Analysis Batch: 8433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-1	C-467	Total/NA	Solid	8015B NM	8437
880-6474-2	C-468	Total/NA	Solid	8015B NM	8437
880-6474-3	C-469	Total/NA	Solid	8015B NM	8437
880-6474-4	C-470	Total/NA	Solid	8015B NM	8437
880-6474-5	C-471	Total/NA	Solid	8015B NM	8437
880-6474-6	C-472	Total/NA	Solid	8015B NM	8437
880-6474-7	C-473	Total/NA	Solid	8015B NM	8437
880-6474-8	C-474	Total/NA	Solid	8015B NM	8437
880-6474-9	C-475	Total/NA	Solid	8015B NM	8437
880-6474-10	C-476	Total/NA	Solid	8015B NM	8437
880-6474-11	C-477	Total/NA	Solid	8015B NM	8437
880-6474-12	C-478	Total/NA	Solid	8015B NM	8437
880-6474-13	C-479	Total/NA	Solid	8015B NM	8437
880-6474-14	C-480	Total/NA	Solid	8015B NM	8437
880-6474-15	C-481	Total/NA	Solid	8015B NM	8437
880-6474-16	C-482	Total/NA	Solid	8015B NM	8437
880-6474-17	C-483	Total/NA	Solid	8015B NM	8437
880-6474-18	C-484	Total/NA	Solid	8015B NM	8437
880-6474-19	C-485	Total/NA	Solid	8015B NM	8437
880-6474-20	C-486	Total/NA	Solid	8015B NM	8437
880-6474-41	C-507	Total/NA	Solid	8015B NM	8466
880-6474-42	C-508	Total/NA	Solid	8015B NM	8466
880-6474-43	C-509	Total/NA	Solid	8015B NM	8466
880-6474-44	C-510	Total/NA	Solid	8015B NM	8466
880-6474-45	C-511	Total/NA	Solid	8015B NM	8466
880-6474-46	C-512	Total/NA	Solid	8015B NM	8466
880-6474-47	C-513	Total/NA	Solid	8015B NM	8466
880-6474-48	C-514	Total/NA	Solid	8015B NM	8466
880-6474-49	C-514	Total/NA	Solid	8015B NM	8466
880-6474-50	C-516	Total/NA	Solid	8015B NM	8466
880-6474-51	C-517	Total/NA	Solid	8015B NM	8466
880-6474-52	C-518	Total/NA	Solid	8015B NM	8466

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8433 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-53	C-519	Total/NA	Solid	8015B NM	8466
880-6474-54	C-520	Total/NA	Solid	8015B NM	8466
880-6474-55	C-521	Total/NA	Solid	8015B NM	8466
880-6474-56	C-522	Total/NA	Solid	8015B NM	8466
880-6474-57	C-523	Total/NA	Solid	8015B NM	8466
880-6474-58	C-524	Total/NA	Solid	8015B NM	8466
880-6474-59	C-525	Total/NA	Solid	8015B NM	8466
880-6474-60	C-526	Total/NA	Solid	8015B NM	8466
MB 880-8437/1-A	Method Blank	Total/NA	Solid	8015B NM	8437
MB 880-8466/1-A	Method Blank	Total/NA	Solid	8015B NM	8466
LCS 880-8437/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8437
LCS 880-8466/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8466
LCSD 880-8437/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8437
LCSD 880-8466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8466
880-6474-1 MS	C-467	Total/NA	Solid	8015B NM	8437
880-6474-1 MSD	C-467	Total/NA	Solid	8015B NM	8437
880-6474-41 MS	C-507	Total/NA	Solid	8015B NM	8466
880-6474-41 MSD	C-507	Total/NA	Solid	8015B NM	8466

Prep Batch: 8437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-1	C-467	Total/NA	Solid	8015NM Prep	
880-6474-2	C-468	Total/NA	Solid	8015NM Prep	
880-6474-3	C-469	Total/NA	Solid	8015NM Prep	
880-6474-4	C-470	Total/NA	Solid	8015NM Prep	
880-6474-5	C-471	Total/NA	Solid	8015NM Prep	
880-6474-6	C-472	Total/NA	Solid	8015NM Prep	
880-6474-7	C-473	Total/NA	Solid	8015NM Prep	
880-6474-8	C-474	Total/NA	Solid	8015NM Prep	
880-6474-9	C-475	Total/NA	Solid	8015NM Prep	
880-6474-10	C-476	Total/NA	Solid	8015NM Prep	
880-6474-11	C-477	Total/NA	Solid	8015NM Prep	
880-6474-12	C-478	Total/NA	Solid	8015NM Prep	
880-6474-13	C-479	Total/NA	Solid	8015NM Prep	
880-6474-14	C-480	Total/NA	Solid	8015NM Prep	
880-6474-15	C-481	Total/NA	Solid	8015NM Prep	
880-6474-16	C-482	Total/NA	Solid	8015NM Prep	
880-6474-17	C-483	Total/NA	Solid	8015NM Prep	
880-6474-18	C-484	Total/NA	Solid	8015NM Prep	
880-6474-19	C-485	Total/NA	Solid	8015NM Prep	
880-6474-20	C-486	Total/NA	Solid	8015NM Prep	
MB 880-8437/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8437/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8437/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6474-1 MS	C-467	Total/NA	Solid	8015NM Prep	
880-6474-1 MSD	C-467	Total/NA	Solid	8015NM Prep	

Prep Batch: 8463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-21	C-487	Total/NA	Solid	8015NM Prep	
880-6474-22	C-488	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 8463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-23	C-489	Total/NA	Solid	8015NM Prep	
880-6474-24	C-490	Total/NA	Solid	8015NM Prep	
880-6474-25	C-491	Total/NA	Solid	8015NM Prep	
880-6474-26	C-492	Total/NA	Solid	8015NM Prep	
880-6474-27	C-493	Total/NA	Solid	8015NM Prep	
880-6474-28	C-494	Total/NA	Solid	8015NM Prep	
880-6474-29	C-495	Total/NA	Solid	8015NM Prep	
880-6474-30	C-496	Total/NA	Solid	8015NM Prep	
880-6474-31	C-497	Total/NA	Solid	8015NM Prep	
880-6474-32	C-498	Total/NA	Solid	8015NM Prep	
880-6474-33	C-499	Total/NA	Solid	8015NM Prep	
880-6474-34	C-500	Total/NA	Solid	8015NM Prep	
880-6474-35	C-501	Total/NA	Solid	8015NM Prep	
880-6474-36	C-502	Total/NA	Solid	8015NM Prep	
880-6474-37	C-503	Total/NA	Solid	8015NM Prep	
880-6474-38	C-504	Total/NA	Solid	8015NM Prep	
880-6474-39	C-505	Total/NA	Solid	8015NM Prep	
880-6474-40	C-506	Total/NA	Solid	8015NM Prep	
MB 880-8463/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8463/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8463/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6474-21 MS	C-487	Total/NA	Solid	8015NM Prep	
880-6474-21 MSD	C-487	Total/NA	Solid	8015NM Prep	

Prep Batch: 8466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-41	C-507	Total/NA	Solid	8015NM Prep	
880-6474-42	C-508	Total/NA	Solid	8015NM Prep	
880-6474-43	C-509	Total/NA	Solid	8015NM Prep	
880-6474-44	C-510	Total/NA	Solid	8015NM Prep	
880-6474-45	C-511	Total/NA	Solid	8015NM Prep	
880-6474-46	C-512	Total/NA	Solid	8015NM Prep	
880-6474-47	C-513	Total/NA	Solid	8015NM Prep	
880-6474-48	C-514	Total/NA	Solid	8015NM Prep	
880-6474-49	C-514	Total/NA	Solid	8015NM Prep	
880-6474-50	C-516	Total/NA	Solid	8015NM Prep	
880-6474-51	C-517	Total/NA	Solid	8015NM Prep	
880-6474-52	C-518	Total/NA	Solid	8015NM Prep	
880-6474-53	C-519	Total/NA	Solid	8015NM Prep	
880-6474-54	C-520	Total/NA	Solid	8015NM Prep	
880-6474-55	C-521	Total/NA	Solid	8015NM Prep	
880-6474-56	C-522	Total/NA	Solid	8015NM Prep	
880-6474-57	C-523	Total/NA	Solid	8015NM Prep	
880-6474-58	C-524	Total/NA	Solid	8015NM Prep	
880-6474-59	C-525	Total/NA	Solid	8015NM Prep	
880-6474-60	C-526	Total/NA	Solid	8015NM Prep	
MB 880-8466/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8466/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6474-41 MS	C-507	Total/NA	Solid	8015NM Prep	
880-6474-41 MSD	C-507	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 8470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-61	C-527	Total/NA	Solid	8015NM Prep	
880-6474-62	C-528	Total/NA	Solid	8015NM Prep	
880-6474-63	C-529	Total/NA	Solid	8015NM Prep	
880-6474-64	C-531	Total/NA	Solid	8015NM Prep	
880-6474-65	C-531	Total/NA	Solid	8015NM Prep	
880-6474-66	C-532	Total/NA	Solid	8015NM Prep	
880-6474-67	C-533	Total/NA	Solid	8015NM Prep	
880-6474-68	C-534	Total/NA	Solid	8015NM Prep	
880-6474-69	C-535	Total/NA	Solid	8015NM Prep	
880-6474-70	C-536	Total/NA	Solid	8015NM Prep	
880-6474-71	C-537	Total/NA	Solid	8015NM Prep	
880-6474-72	C-538	Total/NA	Solid	8015NM Prep	
880-6474-73	C-539	Total/NA	Solid	8015NM Prep	
880-6474-74	C-540	Total/NA	Solid	8015NM Prep	
880-6474-75	C-541	Total/NA	Solid	8015NM Prep	
880-6474-76	C-542	Total/NA	Solid	8015NM Prep	
880-6474-77	C-543	Total/NA	Solid	8015NM Prep	
880-6474-78	C-544	Total/NA	Solid	8015NM Prep	
880-6474-79	C-545	Total/NA	Solid	8015NM Prep	
880-6474-80	C-546	Total/NA	Solid	8015NM Prep	
MB 880-8470/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8470/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8470/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6474-61 MS	C-527	Total/NA	Solid	8015NM Prep	
880-6474-61 MSD	C-527	Total/NA	Solid	8015NM Prep	

Prep Batch: 8471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-81	C-547	Total/NA	Solid	8015NM Prep	
880-6474-82	C-548	Total/NA	Solid	8015NM Prep	
880-6474-83	C-549	Total/NA	Solid	8015NM Prep	
880-6474-84	C-550	Total/NA	Solid	8015NM Prep	
880-6474-85	C-551	Total/NA	Solid	8015NM Prep	
880-6474-86	C-552	Total/NA	Solid	8015NM Prep	
880-6474-87	C-553	Total/NA	Solid	8015NM Prep	
880-6474-88	C-554	Total/NA	Solid	8015NM Prep	
880-6474-89	C-555	Total/NA	Solid	8015NM Prep	
880-6474-90	C-556	Total/NA	Solid	8015NM Prep	
880-6474-91	C-557	Total/NA	Solid	8015NM Prep	
880-6474-92	C-558	Total/NA	Solid	8015NM Prep	
880-6474-93	C-559	Total/NA	Solid	8015NM Prep	
880-6474-94	C-560	Total/NA	Solid	8015NM Prep	
880-6474-95	C-561	Total/NA	Solid	8015NM Prep	
880-6474-96	C-562	Total/NA	Solid	8015NM Prep	
880-6474-97	C-563	Total/NA	Solid	8015NM Prep	
880-6474-98	C-564	Total/NA	Solid	8015NM Prep	
880-6474-99	C-565	Total/NA	Solid	8015NM Prep	
880-6474-100	C-566	Total/NA	Solid	8015NM Prep	
MB 880-8471/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8471/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8471/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 8471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-81 MS	C-547	Total/NA	Solid	8015NM Prep	
880-6474-81 MSD	C-547	Total/NA	Solid	8015NM Prep	

Prep Batch: 8485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-161	C-627	Total/NA	Solid	8015NM Prep	
880-6474-162	C-628	Total/NA	Solid	8015NM Prep	
880-6474-163	C-629	Total/NA	Solid	8015NM Prep	
880-6474-164	C-630	Total/NA	Solid	8015NM Prep	
880-6474-165	C-631	Total/NA	Solid	8015NM Prep	
880-6474-166	C-632	Total/NA	Solid	8015NM Prep	
MB 880-8485/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8485/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8485/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6505-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6505-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-61	C-527	Total/NA	Solid	8015B NM	8470
880-6474-62	C-528	Total/NA	Solid	8015B NM	8470
880-6474-63	C-529	Total/NA	Solid	8015B NM	8470
880-6474-64	C-531	Total/NA	Solid	8015B NM	8470
880-6474-65	C-531	Total/NA	Solid	8015B NM	8470
880-6474-66	C-532	Total/NA	Solid	8015B NM	8470
880-6474-67	C-533	Total/NA	Solid	8015B NM	8470
880-6474-68	C-534	Total/NA	Solid	8015B NM	8470
880-6474-69	C-535	Total/NA	Solid	8015B NM	8470
880-6474-70	C-536	Total/NA	Solid	8015B NM	8470
880-6474-71	C-537	Total/NA	Solid	8015B NM	8470
880-6474-72	C-538	Total/NA	Solid	8015B NM	8470
880-6474-73	C-539	Total/NA	Solid	8015B NM	8470
880-6474-74	C-540	Total/NA	Solid	8015B NM	8470
880-6474-75	C-541	Total/NA	Solid	8015B NM	8470
880-6474-76	C-542	Total/NA	Solid	8015B NM	8470
880-6474-77	C-543	Total/NA	Solid	8015B NM	8470
880-6474-78	C-544	Total/NA	Solid	8015B NM	8470
880-6474-79	C-545	Total/NA	Solid	8015B NM	8470
880-6474-80	C-546	Total/NA	Solid	8015B NM	8470
880-6474-101	C-567	Total/NA	Solid	8015B NM	8501
880-6474-102	C-568	Total/NA	Solid	8015B NM	8501
880-6474-103	C-569	Total/NA	Solid	8015B NM	8501
880-6474-104	C-570	Total/NA	Solid	8015B NM	8501
880-6474-105	C-571	Total/NA	Solid	8015B NM	8501
880-6474-106	C-572	Total/NA	Solid	8015B NM	8501
880-6474-107	C-573	Total/NA	Solid	8015B NM	8501
880-6474-108	C-574	Total/NA	Solid	8015B NM	8501
880-6474-109	C-575	Total/NA	Solid	8015B NM	8501
880-6474-110	C-576	Total/NA	Solid	8015B NM	8501
880-6474-111	C-578	Total/NA	Solid	8015B NM	8501
880-6474-112	C-579	Total/NA	Solid	8015B NM	8501

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8492 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-113	C-580	Total/NA	Solid	8015B NM	8501
880-6474-114	C-581	Total/NA	Solid	8015B NM	8501
880-6474-115	C-582	Total/NA	Solid	8015B NM	8501
880-6474-116	C-583	Total/NA	Solid	8015B NM	8501
880-6474-117	C-584	Total/NA	Solid	8015B NM	8501
880-6474-118	C-585	Total/NA	Solid	8015B NM	8501
880-6474-119	C-586	Total/NA	Solid	8015B NM	8501
880-6474-120	C-587	Total/NA	Solid	8015B NM	8501
MB 880-8470/1-A	Method Blank	Total/NA	Solid	8015B NM	8470
MB 880-8501/1-A	Method Blank	Total/NA	Solid	8015B NM	8501
LCS 880-8470/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8470
LCS 880-8501/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8501
LCSD 880-8470/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8470
LCSD 880-8501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8501
880-6474-61 MS	C-527	Total/NA	Solid	8015B NM	8470
880-6474-61 MSD	C-527	Total/NA	Solid	8015B NM	8470
880-6474-101 MS	C-567	Total/NA	Solid	8015B NM	8501
880-6474-101 MSD	C-567	Total/NA	Solid	8015B NM	8501

Analysis Batch: 8494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-81	C-547	Total/NA	Solid	8015B NM	8471
880-6474-82	C-548	Total/NA	Solid	8015B NM	8471
880-6474-83	C-549	Total/NA	Solid	8015B NM	8471
880-6474-84	C-550	Total/NA	Solid	8015B NM	8471
880-6474-85	C-551	Total/NA	Solid	8015B NM	8471
880-6474-86	C-552	Total/NA	Solid	8015B NM	8471
880-6474-87	C-553	Total/NA	Solid	8015B NM	8471
880-6474-88	C-554	Total/NA	Solid	8015B NM	8471
880-6474-89	C-555	Total/NA	Solid	8015B NM	8471
880-6474-90	C-556	Total/NA	Solid	8015B NM	8471
880-6474-91	C-557	Total/NA	Solid	8015B NM	8471
880-6474-92	C-558	Total/NA	Solid	8015B NM	8471
880-6474-93	C-559	Total/NA	Solid	8015B NM	8471
880-6474-94	C-560	Total/NA	Solid	8015B NM	8471
880-6474-95	C-561	Total/NA	Solid	8015B NM	8471
880-6474-96	C-562	Total/NA	Solid	8015B NM	8471
880-6474-97	C-563	Total/NA	Solid	8015B NM	8471
880-6474-98	C-564	Total/NA	Solid	8015B NM	8471
880-6474-99	C-565	Total/NA	Solid	8015B NM	8471
880-6474-100	C-566	Total/NA	Solid	8015B NM	8471
880-6474-121	C-588	Total/NA	Solid	8015B NM	8503
880-6474-122	C-589	Total/NA	Solid	8015B NM	8503
880-6474-123	C-590	Total/NA	Solid	8015B NM	8503
880-6474-124	C-591	Total/NA	Solid	8015B NM	8503
880-6474-125	C-592	Total/NA	Solid	8015B NM	8503
880-6474-126	C-593	Total/NA	Solid	8015B NM	8503
880-6474-127	C-594	Total/NA	Solid	8015B NM	8503
880-6474-128	C-595	Total/NA	Solid	8015B NM	8503
880-6474-129	C-596	Total/NA	Solid	8015B NM	8503
880-6474-130	C-597	Total/NA	Solid	8015B NM	8503

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8494 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-131	C-598	Total/NA	Solid	8015B NM	8503
880-6474-132	C-599	Total/NA	Solid	8015B NM	8503
880-6474-133	C-600	Total/NA	Solid	8015B NM	8503
880-6474-134	C-601	Total/NA	Solid	8015B NM	8503
880-6474-135	C-602	Total/NA	Solid	8015B NM	8503
880-6474-136	C-603	Total/NA	Solid	8015B NM	8503
880-6474-137	C-604	Total/NA	Solid	8015B NM	8503
880-6474-138	C-605	Total/NA	Solid	8015B NM	8503
880-6474-139	C-606	Total/NA	Solid	8015B NM	8503
880-6474-140	C-607	Total/NA	Solid	8015B NM	8503
MB 880-8471/1-A	Method Blank	Total/NA	Solid	8015B NM	8471
MB 880-8503/1-A	Method Blank	Total/NA	Solid	8015B NM	8503
LCS 880-8471/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8471
LCS 880-8503/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8503
LCSD 880-8471/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8471
LCSD 880-8503/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8503
880-6474-81 MS	C-547	Total/NA	Solid	8015B NM	8471
880-6474-81 MSD	C-547	Total/NA	Solid	8015B NM	8471
880-6474-121 MS	C-588	Total/NA	Solid	8015B NM	8503
880-6474-121 MSD	C-588	Total/NA	Solid	8015B NM	8503

Prep Batch: 8501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-101	C-567	Total/NA	Solid	8015NM Prep	
880-6474-102	C-568	Total/NA	Solid	8015NM Prep	
880-6474-103	C-569	Total/NA	Solid	8015NM Prep	
880-6474-104	C-570	Total/NA	Solid	8015NM Prep	
880-6474-105	C-571	Total/NA	Solid	8015NM Prep	
880-6474-106	C-572	Total/NA	Solid	8015NM Prep	
880-6474-107	C-573	Total/NA	Solid	8015NM Prep	
880-6474-108	C-574	Total/NA	Solid	8015NM Prep	
880-6474-109	C-575	Total/NA	Solid	8015NM Prep	
880-6474-110	C-576	Total/NA	Solid	8015NM Prep	
880-6474-111	C-578	Total/NA	Solid	8015NM Prep	
880-6474-112	C-579	Total/NA	Solid	8015NM Prep	
880-6474-113	C-580	Total/NA	Solid	8015NM Prep	
880-6474-114	C-581	Total/NA	Solid	8015NM Prep	
880-6474-115	C-582	Total/NA	Solid	8015NM Prep	
880-6474-116	C-583	Total/NA	Solid	8015NM Prep	
880-6474-117	C-584	Total/NA	Solid	8015NM Prep	
880-6474-118	C-585	Total/NA	Solid	8015NM Prep	
880-6474-119	C-586	Total/NA	Solid	8015NM Prep	
880-6474-120	C-587	Total/NA	Solid	8015NM Prep	
MB 880-8501/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8501/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6474-101 MS	C-567	Total/NA	Solid	8015NM Prep	
880-6474-101 MSD	C-567	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 8503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-121	C-588	Total/NA	Solid	8015NM Prep	
880-6474-122	C-589	Total/NA	Solid	8015NM Prep	
880-6474-123	C-590	Total/NA	Solid	8015NM Prep	
880-6474-124	C-591	Total/NA	Solid	8015NM Prep	
880-6474-125	C-592	Total/NA	Solid	8015NM Prep	
880-6474-126	C-593	Total/NA	Solid	8015NM Prep	
880-6474-127	C-594	Total/NA	Solid	8015NM Prep	
880-6474-128	C-595	Total/NA	Solid	8015NM Prep	
880-6474-129	C-596	Total/NA	Solid	8015NM Prep	
880-6474-130	C-597	Total/NA	Solid	8015NM Prep	
880-6474-131	C-598	Total/NA	Solid	8015NM Prep	
880-6474-132	C-599	Total/NA	Solid	8015NM Prep	
880-6474-133	C-600	Total/NA	Solid	8015NM Prep	
880-6474-134	C-601	Total/NA	Solid	8015NM Prep	
880-6474-135	C-602	Total/NA	Solid	8015NM Prep	
880-6474-136	C-603	Total/NA	Solid	8015NM Prep	
880-6474-137	C-604	Total/NA	Solid	8015NM Prep	
880-6474-138	C-605	Total/NA	Solid	8015NM Prep	
880-6474-139	C-606	Total/NA	Solid	8015NM Prep	
880-6474-140	C-607	Total/NA	Solid	8015NM Prep	
MB 880-8503/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8503/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8503/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6474-121 MS	C-588	Total/NA	Solid	8015NM Prep	
880-6474-121 MSD	C-588	Total/NA	Solid	8015NM Prep	

Prep Batch: 8509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-141	C-607-2	Total/NA	Solid	8015NM Prep	
880-6474-142	C-608	Total/NA	Solid	8015NM Prep	
880-6474-143	C-609	Total/NA	Solid	8015NM Prep	
880-6474-144	C-610	Total/NA	Solid	8015NM Prep	
880-6474-145	C-611	Total/NA	Solid	8015NM Prep	
880-6474-146	C-612	Total/NA	Solid	8015NM Prep	
880-6474-147	C-613	Total/NA	Solid	8015NM Prep	
880-6474-148	C-614	Total/NA	Solid	8015NM Prep	
880-6474-149	C-615	Total/NA	Solid	8015NM Prep	
880-6474-150	C-616	Total/NA	Solid	8015NM Prep	
880-6474-151	C-617	Total/NA	Solid	8015NM Prep	
880-6474-152	C-618	Total/NA	Solid	8015NM Prep	
880-6474-153	C-619	Total/NA	Solid	8015NM Prep	
880-6474-154	C-620	Total/NA	Solid	8015NM Prep	
880-6474-155	C-621	Total/NA	Solid	8015NM Prep	
880-6474-156	C-622	Total/NA	Solid	8015NM Prep	
880-6474-157	C-623	Total/NA	Solid	8015NM Prep	
880-6474-158	C-624	Total/NA	Solid	8015NM Prep	
880-6474-159	C-625	Total/NA	Solid	8015NM Prep	
880-6474-160	C-626	Total/NA	Solid	8015NM Prep	
MB 880-8509/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8509/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 8509 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-141 MS	C-607-2	Total/NA	Solid	8015NM Prep	
880-6474-141 MSD	C-607-2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-141	C-607-2	Total/NA	Solid	8015B NM	8509
880-6474-142	C-608	Total/NA	Solid	8015B NM	8509
880-6474-143	C-609	Total/NA	Solid	8015B NM	8509
880-6474-144	C-610	Total/NA	Solid	8015B NM	8509
880-6474-145	C-611	Total/NA	Solid	8015B NM	8509
880-6474-146	C-612	Total/NA	Solid	8015B NM	8509
880-6474-147	C-613	Total/NA	Solid	8015B NM	8509
880-6474-148	C-614	Total/NA	Solid	8015B NM	8509
880-6474-149	C-615	Total/NA	Solid	8015B NM	8509
880-6474-150	C-616	Total/NA	Solid	8015B NM	8509
880-6474-151	C-617	Total/NA	Solid	8015B NM	8509
880-6474-152	C-618	Total/NA	Solid	8015B NM	8509
880-6474-153	C-619	Total/NA	Solid	8015B NM	8509
880-6474-154	C-620	Total/NA	Solid	8015B NM	8509
880-6474-155	C-621	Total/NA	Solid	8015B NM	8509
880-6474-156	C-622	Total/NA	Solid	8015B NM	8509
880-6474-157	C-623	Total/NA	Solid	8015B NM	8509
880-6474-158	C-624	Total/NA	Solid	8015B NM	8509
880-6474-159	C-625	Total/NA	Solid	8015B NM	8509
880-6474-160	C-626	Total/NA	Solid	8015B NM	8509
MB 880-8509/1-A	Method Blank	Total/NA	Solid	8015B NM	8509
LCS 880-8509/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8509
LCSD 880-8509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8509
880-6474-141 MS	C-607-2	Total/NA	Solid	8015B NM	8509
880-6474-141 MSD	C-607-2	Total/NA	Solid	8015B NM	8509

Analysis Batch: 8663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-1	C-467	Total/NA	Solid	8015 NM	
880-6474-2	C-468	Total/NA	Solid	8015 NM	
880-6474-3	C-469	Total/NA	Solid	8015 NM	
880-6474-4	C-470	Total/NA	Solid	8015 NM	
880-6474-5	C-471	Total/NA	Solid	8015 NM	
880-6474-6	C-472	Total/NA	Solid	8015 NM	
880-6474-7	C-473	Total/NA	Solid	8015 NM	
880-6474-8	C-474	Total/NA	Solid	8015 NM	
880-6474-9	C-475	Total/NA	Solid	8015 NM	
880-6474-10	C-476	Total/NA	Solid	8015 NM	
880-6474-11	C-477	Total/NA	Solid	8015 NM	
880-6474-12	C-478	Total/NA	Solid	8015 NM	
880-6474-13	C-479	Total/NA	Solid	8015 NM	
880-6474-14	C-480	Total/NA	Solid	8015 NM	
880-6474-15	C-481	Total/NA	Solid	8015 NM	
880-6474-16	C-482	Total/NA	Solid	8015 NM	
880-6474-17	C-483	Total/NA	Solid	8015 NM	
880-6474-18	C-484	Total/NA	Solid	8015 NM	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-19	C-485	Total/NA	Solid	8015 NM	
880-6474-20	C-486	Total/NA	Solid	8015 NM	
880-6474-21	C-487	Total/NA	Solid	8015 NM	
880-6474-22	C-488	Total/NA	Solid	8015 NM	
880-6474-23	C-489	Total/NA	Solid	8015 NM	
880-6474-24	C-490	Total/NA	Solid	8015 NM	
880-6474-25	C-491	Total/NA	Solid	8015 NM	
880-6474-26	C-492	Total/NA	Solid	8015 NM	
880-6474-27	C-493	Total/NA	Solid	8015 NM	
880-6474-28	C-494	Total/NA	Solid	8015 NM	
880-6474-29	C-495	Total/NA	Solid	8015 NM	
880-6474-30	C-496	Total/NA	Solid	8015 NM	
880-6474-31	C-497	Total/NA	Solid	8015 NM	
880-6474-32	C-498	Total/NA	Solid	8015 NM	
880-6474-33	C-499	Total/NA	Solid	8015 NM	
880-6474-34	C-500	Total/NA	Solid	8015 NM	
880-6474-35	C-501	Total/NA	Solid	8015 NM	
880-6474-36	C-502	Total/NA	Solid	8015 NM	
880-6474-37	C-503	Total/NA	Solid	8015 NM	
880-6474-38	C-504	Total/NA	Solid	8015 NM	
880-6474-39	C-505	Total/NA	Solid	8015 NM	
880-6474-40	C-506	Total/NA	Solid	8015 NM	
880-6474-41	C-507	Total/NA	Solid	8015 NM	
880-6474-42	C-508	Total/NA	Solid	8015 NM	
880-6474-43	C-509	Total/NA	Solid	8015 NM	
880-6474-44	C-510	Total/NA	Solid	8015 NM	
880-6474-45	C-511	Total/NA	Solid	8015 NM	
880-6474-46	C-512	Total/NA	Solid	8015 NM	
880-6474-47	C-513	Total/NA	Solid	8015 NM	
880-6474-48	C-514	Total/NA	Solid	8015 NM	
880-6474-49	C-514	Total/NA	Solid	8015 NM	
880-6474-50	C-516	Total/NA	Solid	8015 NM	
880-6474-51	C-517	Total/NA	Solid	8015 NM	
880-6474-52	C-518	Total/NA	Solid	8015 NM	
880-6474-53	C-519	Total/NA	Solid	8015 NM	
880-6474-54	C-520	Total/NA	Solid	8015 NM	
880-6474-55	C-521	Total/NA	Solid	8015 NM	
880-6474-56	C-522	Total/NA	Solid	8015 NM	
880-6474-57	C-523	Total/NA	Solid	8015 NM	
880-6474-58	C-524	Total/NA	Solid	8015 NM	
880-6474-59	C-525	Total/NA	Solid	8015 NM	
880-6474-60	C-526	Total/NA	Solid	8015 NM	
880-6474-61	C-527	Total/NA	Solid	8015 NM	
880-6474-62	C-528	Total/NA	Solid	8015 NM	
880-6474-63	C-529	Total/NA	Solid	8015 NM	
880-6474-64	C-531	Total/NA	Solid	8015 NM	
880-6474-65	C-531	Total/NA	Solid	8015 NM	
880-6474-66	C-532	Total/NA	Solid	8015 NM	
880-6474-67	C-533	Total/NA	Solid	8015 NM	
880-6474-68	C-534	Total/NA	Solid	8015 NM	
880-6474-69	C-535	Total/NA	Solid	8015 NM	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-70	C-536	Total/NA	Solid	8015 NM	
880-6474-71	C-537	Total/NA	Solid	8015 NM	
880-6474-72	C-538	Total/NA	Solid	8015 NM	
880-6474-73	C-539	Total/NA	Solid	8015 NM	
880-6474-74	C-540	Total/NA	Solid	8015 NM	
880-6474-75	C-541	Total/NA	Solid	8015 NM	
880-6474-76	C-542	Total/NA	Solid	8015 NM	
880-6474-77	C-543	Total/NA	Solid	8015 NM	
880-6474-78	C-544	Total/NA	Solid	8015 NM	
880-6474-79	C-545	Total/NA	Solid	8015 NM	
880-6474-80	C-546	Total/NA	Solid	8015 NM	
880-6474-81	C-547	Total/NA	Solid	8015 NM	
880-6474-82	C-548	Total/NA	Solid	8015 NM	
880-6474-83	C-549	Total/NA	Solid	8015 NM	
880-6474-84	C-550	Total/NA	Solid	8015 NM	
880-6474-85	C-551	Total/NA	Solid	8015 NM	
880-6474-86	C-552	Total/NA	Solid	8015 NM	
880-6474-87	C-553	Total/NA	Solid	8015 NM	
880-6474-88	C-554	Total/NA	Solid	8015 NM	
880-6474-89	C-555	Total/NA	Solid	8015 NM	
880-6474-90	C-556	Total/NA	Solid	8015 NM	
880-6474-91	C-557	Total/NA	Solid	8015 NM	
880-6474-92	C-558	Total/NA	Solid	8015 NM	
880-6474-93	C-559	Total/NA	Solid	8015 NM	
880-6474-94	C-560	Total/NA	Solid	8015 NM	
880-6474-95	C-561	Total/NA	Solid	8015 NM	
880-6474-96	C-562	Total/NA	Solid	8015 NM	
880-6474-97	C-563	Total/NA	Solid	8015 NM	
880-6474-98	C-564	Total/NA	Solid	8015 NM	
880-6474-99	C-565	Total/NA	Solid	8015 NM	
880-6474-100	C-566	Total/NA	Solid	8015 NM	
880-6474-101	C-567	Total/NA	Solid	8015 NM	
880-6474-102	C-568	Total/NA	Solid	8015 NM	
880-6474-103	C-569	Total/NA	Solid	8015 NM	
880-6474-104	C-570	Total/NA	Solid	8015 NM	
880-6474-105	C-571	Total/NA	Solid	8015 NM	
880-6474-106	C-572	Total/NA	Solid	8015 NM	
880-6474-107	C-573	Total/NA	Solid	8015 NM	
880-6474-108	C-574	Total/NA	Solid	8015 NM	
880-6474-109	C-575	Total/NA	Solid	8015 NM	
880-6474-110	C-576	Total/NA	Solid	8015 NM	
880-6474-111	C-578	Total/NA	Solid	8015 NM	
880-6474-112	C-579	Total/NA	Solid	8015 NM	
880-6474-113	C-580	Total/NA	Solid	8015 NM	
880-6474-114	C-581	Total/NA	Solid	8015 NM	
880-6474-115	C-582	Total/NA	Solid	8015 NM	
880-6474-116	C-583	Total/NA	Solid	8015 NM	
880-6474-117	C-584	Total/NA	Solid	8015 NM	
880-6474-118	C-585	Total/NA	Solid	8015 NM	
880-6474-119	C-586	Total/NA	Solid	8015 NM	
880-6474-120	C-587	Total/NA	Solid	8015 NM	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-121	C-588	Total/NA	Solid	8015 NM	
880-6474-122	C-589	Total/NA	Solid	8015 NM	
880-6474-123	C-590	Total/NA	Solid	8015 NM	
880-6474-124	C-591	Total/NA	Solid	8015 NM	
880-6474-125	C-592	Total/NA	Solid	8015 NM	
880-6474-126	C-593	Total/NA	Solid	8015 NM	
880-6474-127	C-594	Total/NA	Solid	8015 NM	
880-6474-128	C-595	Total/NA	Solid	8015 NM	
880-6474-129	C-596	Total/NA	Solid	8015 NM	
880-6474-130	C-597	Total/NA	Solid	8015 NM	
880-6474-131	C-598	Total/NA	Solid	8015 NM	
880-6474-132	C-599	Total/NA	Solid	8015 NM	
880-6474-133	C-600	Total/NA	Solid	8015 NM	
880-6474-134	C-601	Total/NA	Solid	8015 NM	
880-6474-135	C-602	Total/NA	Solid	8015 NM	
880-6474-136	C-603	Total/NA	Solid	8015 NM	
880-6474-137	C-604	Total/NA	Solid	8015 NM	
880-6474-138	C-605	Total/NA	Solid	8015 NM	
880-6474-139	C-606	Total/NA	Solid	8015 NM	
880-6474-140	C-607	Total/NA	Solid	8015 NM	
880-6474-141	C-607-2	Total/NA	Solid	8015 NM	
880-6474-142	C-608	Total/NA	Solid	8015 NM	
880-6474-143	C-609	Total/NA	Solid	8015 NM	
880-6474-144	C-610	Total/NA	Solid	8015 NM	
880-6474-145	C-611	Total/NA	Solid	8015 NM	
880-6474-146	C-612	Total/NA	Solid	8015 NM	
880-6474-147	C-613	Total/NA	Solid	8015 NM	
880-6474-148	C-614	Total/NA	Solid	8015 NM	
880-6474-149	C-615	Total/NA	Solid	8015 NM	
880-6474-150	C-616	Total/NA	Solid	8015 NM	
880-6474-151	C-617	Total/NA	Solid	8015 NM	
880-6474-152	C-618	Total/NA	Solid	8015 NM	
880-6474-153	C-619	Total/NA	Solid	8015 NM	
880-6474-154	C-620	Total/NA	Solid	8015 NM	
880-6474-155	C-621	Total/NA	Solid	8015 NM	
880-6474-156	C-622	Total/NA	Solid	8015 NM	
880-6474-157	C-623	Total/NA	Solid	8015 NM	
880-6474-158	C-624	Total/NA	Solid	8015 NM	
880-6474-159	C-625	Total/NA	Solid	8015 NM	
880-6474-160	C-626	Total/NA	Solid	8015 NM	
880-6474-161	C-627	Total/NA	Solid	8015 NM	
880-6474-162	C-628	Total/NA	Solid	8015 NM	
880-6474-163	C-629	Total/NA	Solid	8015 NM	
880-6474-164	C-630	Total/NA	Solid	8015 NM	
880-6474-165	C-631	Total/NA	Solid	8015 NM	
880-6474-166	C-632	Total/NA	Solid	8015 NM	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 8449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-1	C-467	Soluble	Solid	DI Leach	
880-6474-2	C-468	Soluble	Solid	DI Leach	
880-6474-3	C-469	Soluble	Solid	DI Leach	
880-6474-4	C-470	Soluble	Solid	DI Leach	
880-6474-5	C-471	Soluble	Solid	DI Leach	
880-6474-6	C-472	Soluble	Solid	DI Leach	
880-6474-7	C-473	Soluble	Solid	DI Leach	
880-6474-8	C-474	Soluble	Solid	DI Leach	
880-6474-9	C-475	Soluble	Solid	DI Leach	
880-6474-10	C-476	Soluble	Solid	DI Leach	
880-6474-11	C-477	Soluble	Solid	DI Leach	
880-6474-12	C-478	Soluble	Solid	DI Leach	
880-6474-13	C-479	Soluble	Solid	DI Leach	
MB 880-8449/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8449/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8449/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6474-1 MS	C-467	Soluble	Solid	DI Leach	
880-6474-1 MSD	C-467	Soluble	Solid	DI Leach	
880-6474-11 MS	C-477	Soluble	Solid	DI Leach	
880-6474-11 MSD	C-477	Soluble	Solid	DI Leach	

Leach Batch: 8451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-14	C-480	Soluble	Solid	DI Leach	
880-6474-15	C-481	Soluble	Solid	DI Leach	
880-6474-16	C-482	Soluble	Solid	DI Leach	
880-6474-17	C-483	Soluble	Solid	DI Leach	
880-6474-18	C-484	Soluble	Solid	DI Leach	
880-6474-19	C-485	Soluble	Solid	DI Leach	
880-6474-20	C-486	Soluble	Solid	DI Leach	
880-6474-21	C-487	Soluble	Solid	DI Leach	
880-6474-22	C-488	Soluble	Solid	DI Leach	
880-6474-23	C-489	Soluble	Solid	DI Leach	
880-6474-24	C-490	Soluble	Solid	DI Leach	
880-6474-25	C-491	Soluble	Solid	DI Leach	
880-6474-26	C-492	Soluble	Solid	DI Leach	
880-6474-27	C-493	Soluble	Solid	DI Leach	
880-6474-28	C-494	Soluble	Solid	DI Leach	
880-6474-29	C-495	Soluble	Solid	DI Leach	
880-6474-30	C-496	Soluble	Solid	DI Leach	
880-6474-31	C-497	Soluble	Solid	DI Leach	
880-6474-32	C-498	Soluble	Solid	DI Leach	
880-6474-33	C-499	Soluble	Solid	DI Leach	
MB 880-8451/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8451/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8451/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6474-14 MS	C-480	Soluble	Solid	DI Leach	
880-6474-14 MSD	C-480	Soluble	Solid	DI Leach	
880-6474-24 MS	C-490	Soluble	Solid	DI Leach	
880-6474-24 MSD	C-490	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 8452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-34	C-500	Soluble	Solid	DI Leach	
880-6474-35	C-501	Soluble	Solid	DI Leach	
880-6474-36	C-502	Soluble	Solid	DI Leach	
880-6474-37	C-503	Soluble	Solid	DI Leach	
880-6474-38	C-504	Soluble	Solid	DI Leach	
880-6474-39	C-505	Soluble	Solid	DI Leach	
880-6474-40	C-506	Soluble	Solid	DI Leach	
880-6474-41	C-507	Soluble	Solid	DI Leach	
880-6474-42	C-508	Soluble	Solid	DI Leach	
880-6474-43	C-509	Soluble	Solid	DI Leach	
880-6474-44	C-510	Soluble	Solid	DI Leach	
880-6474-45	C-511	Soluble	Solid	DI Leach	
880-6474-46	C-512	Soluble	Solid	DI Leach	
880-6474-47	C-513	Soluble	Solid	DI Leach	
880-6474-48	C-514	Soluble	Solid	DI Leach	
880-6474-49	C-514	Soluble	Solid	DI Leach	
880-6474-50	C-516	Soluble	Solid	DI Leach	
880-6474-51	C-517	Soluble	Solid	DI Leach	
880-6474-52	C-518	Soluble	Solid	DI Leach	
880-6474-53	C-519	Soluble	Solid	DI Leach	
MB 880-8452/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8452/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8452/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6474-44 MS	C-510	Soluble	Solid	DI Leach	
880-6474-44 MSD	C-510	Soluble	Solid	DI Leach	
880-6474-A-34-B MS	880-6474-A-34-B MS	Soluble	Solid	DI Leach	
880-6474-A-34-C MSD	880-6474-A-34-C MSD	Soluble	Solid	DI Leach	

Leach Batch: 8453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-54	C-520	Soluble	Solid	DI Leach	
880-6474-55	C-521	Soluble	Solid	DI Leach	
880-6474-56	C-522	Soluble	Solid	DI Leach	
880-6474-57	C-523	Soluble	Solid	DI Leach	
880-6474-58	C-524	Soluble	Solid	DI Leach	
880-6474-59	C-525	Soluble	Solid	DI Leach	
880-6474-60	C-526	Soluble	Solid	DI Leach	
880-6474-61	C-527	Soluble	Solid	DI Leach	
880-6474-62	C-528	Soluble	Solid	DI Leach	
880-6474-63	C-529	Soluble	Solid	DI Leach	
880-6474-64	C-531	Soluble	Solid	DI Leach	
880-6474-65	C-531	Soluble	Solid	DI Leach	
880-6474-66	C-532	Soluble	Solid	DI Leach	
880-6474-67	C-533	Soluble	Solid	DI Leach	
880-6474-68	C-534	Soluble	Solid	DI Leach	
880-6474-69	C-535	Soluble	Solid	DI Leach	
880-6474-70	C-536	Soluble	Solid	DI Leach	
880-6474-71	C-537	Soluble	Solid	DI Leach	
880-6474-72	C-538	Soluble	Solid	DI Leach	
880-6474-73	C-539	Soluble	Solid	DI Leach	
MB 880-8453/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-8453/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8453/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6474-54 MS	C-520	Soluble	Solid	DI Leach	
880-6474-54 MSD	C-520	Soluble	Solid	DI Leach	
880-6474-64 MS	C-531	Soluble	Solid	DI Leach	
880-6474-64 MSD	C-531	Soluble	Solid	DI Leach	

Leach Batch: 8454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-74	C-540	Soluble	Solid	DI Leach	
880-6474-75	C-541	Soluble	Solid	DI Leach	
880-6474-76	C-542	Soluble	Solid	DI Leach	
880-6474-77	C-543	Soluble	Solid	DI Leach	
880-6474-78	C-544	Soluble	Solid	DI Leach	
880-6474-79	C-545	Soluble	Solid	DI Leach	
880-6474-80	C-546	Soluble	Solid	DI Leach	
880-6474-81	C-547	Soluble	Solid	DI Leach	
880-6474-82	C-548	Soluble	Solid	DI Leach	
880-6474-83	C-549	Soluble	Solid	DI Leach	
880-6474-84	C-550	Soluble	Solid	DI Leach	
880-6474-85	C-551	Soluble	Solid	DI Leach	
880-6474-86	C-552	Soluble	Solid	DI Leach	
880-6474-87	C-553	Soluble	Solid	DI Leach	
880-6474-88	C-554	Soluble	Solid	DI Leach	
880-6474-89	C-555	Soluble	Solid	DI Leach	
880-6474-90	C-556	Soluble	Solid	DI Leach	
880-6474-91	C-557	Soluble	Solid	DI Leach	
880-6474-92	C-558	Soluble	Solid	DI Leach	
880-6474-93	C-559	Soluble	Solid	DI Leach	
MB 880-8454/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8454/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8454/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6474-74 MS	C-540	Soluble	Solid	DI Leach	
880-6474-74 MSD	C-540	Soluble	Solid	DI Leach	
880-6474-84 MS	C-550	Soluble	Solid	DI Leach	
880-6474-84 MSD	C-550	Soluble	Solid	DI Leach	

Leach Batch: 8455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-94	C-560	Soluble	Solid	DI Leach	
880-6474-95	C-561	Soluble	Solid	DI Leach	
880-6474-96	C-562	Soluble	Solid	DI Leach	
880-6474-97	C-563	Soluble	Solid	DI Leach	
880-6474-98	C-564	Soluble	Solid	DI Leach	
880-6474-99	C-565	Soluble	Solid	DI Leach	
880-6474-100	C-566	Soluble	Solid	DI Leach	
880-6474-101	C-567	Soluble	Solid	DI Leach	
880-6474-102	C-568	Soluble	Solid	DI Leach	
880-6474-103	C-569	Soluble	Solid	DI Leach	
880-6474-104	C-570	Soluble	Solid	DI Leach	
880-6474-105	C-571	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8455 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-106	C-572	Soluble	Solid	DI Leach	
880-6474-107	C-573	Soluble	Solid	DI Leach	
880-6474-108	C-574	Soluble	Solid	DI Leach	
880-6474-109	C-575	Soluble	Solid	DI Leach	
MB 880-8455/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8455/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8455/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6474-94 MS	C-560	Soluble	Solid	DI Leach	
880-6474-94 MSD	C-560	Soluble	Solid	DI Leach	
880-6474-104 MS	C-570	Soluble	Solid	DI Leach	
880-6474-104 MSD	C-570	Soluble	Solid	DI Leach	

Leach Batch: 8456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-110	C-576	Soluble	Solid	DI Leach	
880-6474-111	C-578	Soluble	Solid	DI Leach	
880-6474-112	C-579	Soluble	Solid	DI Leach	
880-6474-113	C-580	Soluble	Solid	DI Leach	
880-6474-114	C-581	Soluble	Solid	DI Leach	
880-6474-115	C-582	Soluble	Solid	DI Leach	
880-6474-116	C-583	Soluble	Solid	DI Leach	
880-6474-117	C-584	Soluble	Solid	DI Leach	
880-6474-118	C-585	Soluble	Solid	DI Leach	
880-6474-119	C-586	Soluble	Solid	DI Leach	
880-6474-120	C-587	Soluble	Solid	DI Leach	
880-6474-121	C-588	Soluble	Solid	DI Leach	
880-6474-122	C-589	Soluble	Solid	DI Leach	
880-6474-123	C-590	Soluble	Solid	DI Leach	
MB 880-8456/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8456/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8456/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6474-110 MS	C-576	Soluble	Solid	DI Leach	
880-6474-110 MSD	C-576	Soluble	Solid	DI Leach	
880-6474-120 MS	C-587	Soluble	Solid	DI Leach	
880-6474-120 MSD	C-587	Soluble	Solid	DI Leach	

Leach Batch: 8478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-124	C-591	Soluble	Solid	DI Leach	
880-6474-125	C-592	Soluble	Solid	DI Leach	
880-6474-126	C-593	Soluble	Solid	DI Leach	
880-6474-127	C-594	Soluble	Solid	DI Leach	
880-6474-128	C-595	Soluble	Solid	DI Leach	
880-6474-129	C-596	Soluble	Solid	DI Leach	
880-6474-130	C-597	Soluble	Solid	DI Leach	
880-6474-131	C-598	Soluble	Solid	DI Leach	
880-6474-132	C-599	Soluble	Solid	DI Leach	
880-6474-133	C-600	Soluble	Solid	DI Leach	
880-6474-134	C-601	Soluble	Solid	DI Leach	
880-6474-135	C-602	Soluble	Solid	DI Leach	
880-6474-136	C-603	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8478 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-137	C-604	Soluble	Solid	DI Leach	
880-6474-138	C-605	Soluble	Solid	DI Leach	
880-6474-139	C-606	Soluble	Solid	DI Leach	
880-6474-140	C-607	Soluble	Solid	DI Leach	
880-6474-141	C-607-2	Soluble	Solid	DI Leach	
880-6474-142	C-608	Soluble	Solid	DI Leach	
880-6474-143	C-609	Soluble	Solid	DI Leach	
MB 880-8478/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8478/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8478/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6474-124 MS	C-591	Soluble	Solid	DI Leach	
880-6474-124 MSD	C-591	Soluble	Solid	DI Leach	
880-6474-134 MS	C-601	Soluble	Solid	DI Leach	
880-6474-134 MSD	C-601	Soluble	Solid	DI Leach	

Leach Batch: 8479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-144	C-610	Soluble	Solid	DI Leach	
880-6474-145	C-611	Soluble	Solid	DI Leach	
880-6474-146	C-612	Soluble	Solid	DI Leach	
880-6474-147	C-613	Soluble	Solid	DI Leach	
880-6474-148	C-614	Soluble	Solid	DI Leach	
880-6474-149	C-615	Soluble	Solid	DI Leach	
880-6474-150	C-616	Soluble	Solid	DI Leach	
880-6474-151	C-617	Soluble	Solid	DI Leach	
880-6474-152	C-618	Soluble	Solid	DI Leach	
880-6474-153	C-619	Soluble	Solid	DI Leach	
880-6474-154	C-620	Soluble	Solid	DI Leach	
880-6474-155	C-621	Soluble	Solid	DI Leach	
880-6474-156	C-622	Soluble	Solid	DI Leach	
880-6474-157	C-623	Soluble	Solid	DI Leach	
880-6474-158	C-624	Soluble	Solid	DI Leach	
880-6474-159	C-625	Soluble	Solid	DI Leach	
880-6474-160	C-626	Soluble	Solid	DI Leach	
880-6474-161	C-627	Soluble	Solid	DI Leach	
880-6474-162	C-628	Soluble	Solid	DI Leach	
880-6474-163	C-629	Soluble	Solid	DI Leach	
MB 880-8479/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8479/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8479/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6474-144 MS	C-610	Soluble	Solid	DI Leach	
880-6474-144 MSD	C-610	Soluble	Solid	DI Leach	
880-6474-154 MS	C-620	Soluble	Solid	DI Leach	
880-6474-154 MSD	C-620	Soluble	Solid	DI Leach	

Leach Batch: 8480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-164	C-630	Soluble	Solid	DI Leach	
880-6474-165	C-631	Soluble	Solid	DI Leach	
880-6474-166	C-632	Soluble	Solid	DI Leach	
MB 880-8480/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8480 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-8480/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8480/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6474-164 MS	C-630	Soluble	Solid	DI Leach	
880-6474-164 MSD	C-630	Soluble	Solid	DI Leach	

Analysis Batch: 8554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-1	C-467	Soluble	Solid	300.0	8449
880-6474-2	C-468	Soluble	Solid	300.0	8449
880-6474-3	C-469	Soluble	Solid	300.0	8449
880-6474-4	C-470	Soluble	Solid	300.0	8449
880-6474-5	C-471	Soluble	Solid	300.0	8449
880-6474-6	C-472	Soluble	Solid	300.0	8449
880-6474-7	C-473	Soluble	Solid	300.0	8449
880-6474-8	C-474	Soluble	Solid	300.0	8449
880-6474-9	C-475	Soluble	Solid	300.0	8449
880-6474-10	C-476	Soluble	Solid	300.0	8449
880-6474-11	C-477	Soluble	Solid	300.0	8449
880-6474-12	C-478	Soluble	Solid	300.0	8449
880-6474-13	C-479	Soluble	Solid	300.0	8449
MB 880-8449/1-A	Method Blank	Soluble	Solid	300.0	8449
LCS 880-8449/2-A	Lab Control Sample	Soluble	Solid	300.0	8449
LCSD 880-8449/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8449
880-6474-1 MS	C-467	Soluble	Solid	300.0	8449
880-6474-1 MSD	C-467	Soluble	Solid	300.0	8449
880-6474-11 MS	C-477	Soluble	Solid	300.0	8449
880-6474-11 MSD	C-477	Soluble	Solid	300.0	8449

Analysis Batch: 8555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-14	C-480	Soluble	Solid	300.0	8451
880-6474-15	C-481	Soluble	Solid	300.0	8451
880-6474-16	C-482	Soluble	Solid	300.0	8451
880-6474-17	C-483	Soluble	Solid	300.0	8451
880-6474-18	C-484	Soluble	Solid	300.0	8451
880-6474-19	C-485	Soluble	Solid	300.0	8451
880-6474-20	C-486	Soluble	Solid	300.0	8451
880-6474-21	C-487	Soluble	Solid	300.0	8451
880-6474-22	C-488	Soluble	Solid	300.0	8451
880-6474-23	C-489	Soluble	Solid	300.0	8451
880-6474-24	C-490	Soluble	Solid	300.0	8451
880-6474-25	C-491	Soluble	Solid	300.0	8451
880-6474-26	C-492	Soluble	Solid	300.0	8451
880-6474-27	C-493	Soluble	Solid	300.0	8451
880-6474-28	C-494	Soluble	Solid	300.0	8451
880-6474-29	C-495	Soluble	Solid	300.0	8451
880-6474-30	C-496	Soluble	Solid	300.0	8451
880-6474-31	C-497	Soluble	Solid	300.0	8451
880-6474-32	C-498	Soluble	Solid	300.0	8451
880-6474-33	C-499	Soluble	Solid	300.0	8451
MB 880-8451/1-A	Method Blank	Soluble	Solid	300.0	8451

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 8555 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-8451/2-A	Lab Control Sample	Soluble	Solid	300.0	8451
LCSD 880-8451/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8451
880-6474-14 MS	C-480	Soluble	Solid	300.0	8451
880-6474-14 MSD	C-480	Soluble	Solid	300.0	8451
880-6474-24 MS	C-490	Soluble	Solid	300.0	8451
880-6474-24 MSD	C-490	Soluble	Solid	300.0	8451

Analysis Batch: 8597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-34	C-500	Soluble	Solid	300.0	8452
880-6474-35	C-501	Soluble	Solid	300.0	8452
880-6474-36	C-502	Soluble	Solid	300.0	8452
880-6474-37	C-503	Soluble	Solid	300.0	8452
880-6474-38	C-504	Soluble	Solid	300.0	8452
880-6474-39	C-505	Soluble	Solid	300.0	8452
880-6474-40	C-506	Soluble	Solid	300.0	8452
880-6474-41	C-507	Soluble	Solid	300.0	8452
880-6474-42	C-508	Soluble	Solid	300.0	8452
880-6474-43	C-509	Soluble	Solid	300.0	8452
880-6474-44	C-510	Soluble	Solid	300.0	8452
880-6474-45	C-511	Soluble	Solid	300.0	8452
880-6474-46	C-512	Soluble	Solid	300.0	8452
880-6474-47	C-513	Soluble	Solid	300.0	8452
880-6474-48	C-514	Soluble	Solid	300.0	8452
880-6474-49	C-514	Soluble	Solid	300.0	8452
880-6474-50	C-516	Soluble	Solid	300.0	8452
880-6474-51	C-517	Soluble	Solid	300.0	8452
880-6474-52	C-518	Soluble	Solid	300.0	8452
880-6474-53	C-519	Soluble	Solid	300.0	8452
MB 880-8452/1-A	Method Blank	Soluble	Solid	300.0	8452
LCS 880-8452/2-A	Lab Control Sample	Soluble	Solid	300.0	8452
LCSD 880-8452/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8452
880-6474-44 MS	C-510	Soluble	Solid	300.0	8452
880-6474-44 MSD	C-510	Soluble	Solid	300.0	8452
880-6474-A-34-B MS	880-6474-A-34-B MS	Soluble	Solid	300.0	8452
880-6474-A-34-C MSD	880-6474-A-34-C MSD	Soluble	Solid	300.0	8452

Analysis Batch: 8598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-54	C-520	Soluble	Solid	300.0	8453
880-6474-55	C-521	Soluble	Solid	300.0	8453
880-6474-56	C-522	Soluble	Solid	300.0	8453
880-6474-57	C-523	Soluble	Solid	300.0	8453
880-6474-58	C-524	Soluble	Solid	300.0	8453
880-6474-59	C-525	Soluble	Solid	300.0	8453
880-6474-60	C-526	Soluble	Solid	300.0	8453
880-6474-61	C-527	Soluble	Solid	300.0	8453
880-6474-62	C-528	Soluble	Solid	300.0	8453
880-6474-63	C-529	Soluble	Solid	300.0	8453
880-6474-64	C-531	Soluble	Solid	300.0	8453
880-6474-65	C-531	Soluble	Solid	300.0	8453

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 8598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-66	C-532	Soluble	Solid	300.0	8453
880-6474-67	C-533	Soluble	Solid	300.0	8453
880-6474-68	C-534	Soluble	Solid	300.0	8453
880-6474-69	C-535	Soluble	Solid	300.0	8453
880-6474-70	C-536	Soluble	Solid	300.0	8453
880-6474-71	C-537	Soluble	Solid	300.0	8453
880-6474-72	C-538	Soluble	Solid	300.0	8453
880-6474-73	C-539	Soluble	Solid	300.0	8453
MB 880-8453/1-A	Method Blank	Soluble	Solid	300.0	8453
LCS 880-8453/2-A	Lab Control Sample	Soluble	Solid	300.0	8453
LCSD 880-8453/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8453
880-6474-54 MS	C-520	Soluble	Solid	300.0	8453
880-6474-54 MSD	C-520	Soluble	Solid	300.0	8453
880-6474-64 MS	C-531	Soluble	Solid	300.0	8453
880-6474-64 MSD	C-531	Soluble	Solid	300.0	8453

Analysis Batch: 8600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-74	C-540	Soluble	Solid	300.0	8454
880-6474-75	C-541	Soluble	Solid	300.0	8454
880-6474-76	C-542	Soluble	Solid	300.0	8454
880-6474-77	C-543	Soluble	Solid	300.0	8454
880-6474-78	C-544	Soluble	Solid	300.0	8454
880-6474-79	C-545	Soluble	Solid	300.0	8454
880-6474-80	C-546	Soluble	Solid	300.0	8454
880-6474-81	C-547	Soluble	Solid	300.0	8454
880-6474-82	C-548	Soluble	Solid	300.0	8454
880-6474-83	C-549	Soluble	Solid	300.0	8454
880-6474-84	C-550	Soluble	Solid	300.0	8454
880-6474-85	C-551	Soluble	Solid	300.0	8454
880-6474-86	C-552	Soluble	Solid	300.0	8454
880-6474-87	C-553	Soluble	Solid	300.0	8454
880-6474-88	C-554	Soluble	Solid	300.0	8454
880-6474-89	C-555	Soluble	Solid	300.0	8454
880-6474-90	C-556	Soluble	Solid	300.0	8454
880-6474-91	C-557	Soluble	Solid	300.0	8454
880-6474-92	C-558	Soluble	Solid	300.0	8454
880-6474-93	C-559	Soluble	Solid	300.0	8454
MB 880-8454/1-A	Method Blank	Soluble	Solid	300.0	8454
LCS 880-8454/2-A	Lab Control Sample	Soluble	Solid	300.0	8454
LCSD 880-8454/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8454
880-6474-74 MS	C-540	Soluble	Solid	300.0	8454
880-6474-74 MSD	C-540	Soluble	Solid	300.0	8454
880-6474-84 MS	C-550	Soluble	Solid	300.0	8454
880-6474-84 MSD	C-550	Soluble	Solid	300.0	8454

Analysis Batch: 8601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-94	C-560	Soluble	Solid	300.0	8455
880-6474-95	C-561	Soluble	Solid	300.0	8455
880-6474-96	C-562	Soluble	Solid	300.0	8455

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 8601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-97	C-563	Soluble	Solid	300.0	8455
880-6474-98	C-564	Soluble	Solid	300.0	8455
880-6474-99	C-565	Soluble	Solid	300.0	8455
880-6474-100	C-566	Soluble	Solid	300.0	8455
880-6474-101	C-567	Soluble	Solid	300.0	8455
880-6474-102	C-568	Soluble	Solid	300.0	8455
880-6474-103	C-569	Soluble	Solid	300.0	8455
880-6474-104	C-570	Soluble	Solid	300.0	8455
880-6474-105	C-571	Soluble	Solid	300.0	8455
880-6474-106	C-572	Soluble	Solid	300.0	8455
880-6474-107	C-573	Soluble	Solid	300.0	8455
880-6474-108	C-574	Soluble	Solid	300.0	8455
880-6474-109	C-575	Soluble	Solid	300.0	8455
MB 880-8455/1-A	Method Blank	Soluble	Solid	300.0	8455
LCS 880-8455/2-A	Lab Control Sample	Soluble	Solid	300.0	8455
LCSD 880-8455/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8455
880-6474-94 MS	C-560	Soluble	Solid	300.0	8455
880-6474-94 MSD	C-560	Soluble	Solid	300.0	8455
880-6474-104 MS	C-570	Soluble	Solid	300.0	8455
880-6474-104 MSD	C-570	Soluble	Solid	300.0	8455

Analysis Batch: 8602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-110	C-576	Soluble	Solid	300.0	8456
880-6474-111	C-578	Soluble	Solid	300.0	8456
880-6474-112	C-579	Soluble	Solid	300.0	8456
880-6474-113	C-580	Soluble	Solid	300.0	8456
880-6474-114	C-581	Soluble	Solid	300.0	8456
880-6474-115	C-582	Soluble	Solid	300.0	8456
880-6474-116	C-583	Soluble	Solid	300.0	8456
880-6474-117	C-584	Soluble	Solid	300.0	8456
880-6474-118	C-585	Soluble	Solid	300.0	8456
880-6474-119	C-586	Soluble	Solid	300.0	8456
880-6474-120	C-587	Soluble	Solid	300.0	8456
880-6474-121	C-588	Soluble	Solid	300.0	8456
880-6474-122	C-589	Soluble	Solid	300.0	8456
880-6474-123	C-590	Soluble	Solid	300.0	8456
MB 880-8456/1-A	Method Blank	Soluble	Solid	300.0	8456
LCS 880-8456/2-A	Lab Control Sample	Soluble	Solid	300.0	8456
LCSD 880-8456/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8456
880-6474-110 MS	C-576	Soluble	Solid	300.0	8456
880-6474-110 MSD	C-576	Soluble	Solid	300.0	8456
880-6474-120 MS	C-587	Soluble	Solid	300.0	8456
880-6474-120 MSD	C-587	Soluble	Solid	300.0	8456

Analysis Batch: 8710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-124	C-591	Soluble	Solid	300.0	8478
880-6474-125	C-592	Soluble	Solid	300.0	8478
880-6474-126	C-593	Soluble	Solid	300.0	8478
880-6474-127	C-594	Soluble	Solid	300.0	8478

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 8710 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-128	C-595	Soluble	Solid	300.0	8478
880-6474-129	C-596	Soluble	Solid	300.0	8478
880-6474-130	C-597	Soluble	Solid	300.0	8478
880-6474-131	C-598	Soluble	Solid	300.0	8478
880-6474-132	C-599	Soluble	Solid	300.0	8478
880-6474-133	C-600	Soluble	Solid	300.0	8478
880-6474-134	C-601	Soluble	Solid	300.0	8478
880-6474-135	C-602	Soluble	Solid	300.0	8478
880-6474-136	C-603	Soluble	Solid	300.0	8478
880-6474-137	C-604	Soluble	Solid	300.0	8478
880-6474-138	C-605	Soluble	Solid	300.0	8478
880-6474-139	C-606	Soluble	Solid	300.0	8478
880-6474-140	C-607	Soluble	Solid	300.0	8478
880-6474-141	C-607-2	Soluble	Solid	300.0	8478
880-6474-142	C-608	Soluble	Solid	300.0	8478
880-6474-143	C-609	Soluble	Solid	300.0	8478
MB 880-8478/1-A	Method Blank	Soluble	Solid	300.0	8478
LCS 880-8478/2-A	Lab Control Sample	Soluble	Solid	300.0	8478
LCSD 880-8478/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8478
880-6474-124 MS	C-591	Soluble	Solid	300.0	8478
880-6474-124 MSD	C-591	Soluble	Solid	300.0	8478
880-6474-134 MS	C-601	Soluble	Solid	300.0	8478
880-6474-134 MSD	C-601	Soluble	Solid	300.0	8478

Analysis Batch: 8739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-144	C-610	Soluble	Solid	300.0	8479
880-6474-145	C-611	Soluble	Solid	300.0	8479
880-6474-146	C-612	Soluble	Solid	300.0	8479
880-6474-147	C-613	Soluble	Solid	300.0	8479
880-6474-148	C-614	Soluble	Solid	300.0	8479
880-6474-149	C-615	Soluble	Solid	300.0	8479
880-6474-150	C-616	Soluble	Solid	300.0	8479
880-6474-151	C-617	Soluble	Solid	300.0	8479
880-6474-152	C-618	Soluble	Solid	300.0	8479
880-6474-153	C-619	Soluble	Solid	300.0	8479
880-6474-154	C-620	Soluble	Solid	300.0	8479
880-6474-155	C-621	Soluble	Solid	300.0	8479
880-6474-156	C-622	Soluble	Solid	300.0	8479
880-6474-157	C-623	Soluble	Solid	300.0	8479
880-6474-158	C-624	Soluble	Solid	300.0	8479
880-6474-159	C-625	Soluble	Solid	300.0	8479
880-6474-160	C-626	Soluble	Solid	300.0	8479
880-6474-161	C-627	Soluble	Solid	300.0	8479
880-6474-162	C-628	Soluble	Solid	300.0	8479
880-6474-163	C-629	Soluble	Solid	300.0	8479
MB 880-8479/1-A	Method Blank	Soluble	Solid	300.0	8479
LCS 880-8479/2-A	Lab Control Sample	Soluble	Solid	300.0	8479
LCSD 880-8479/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8479
880-6474-144 MS	C-610	Soluble	Solid	300.0	8479
880-6474-144 MSD	C-610	Soluble	Solid	300.0	8479

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 8739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-154 MS	C-620	Soluble	Solid	300.0	8479
880-6474-154 MSD	C-620	Soluble	Solid	300.0	8479

Analysis Batch: 8749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6474-164	C-630	Soluble	Solid	300.0	8480
880-6474-165	C-631	Soluble	Solid	300.0	8480
880-6474-166	C-632	Soluble	Solid	300.0	8480
MB 880-8480/1-A	Method Blank	Soluble	Solid	300.0	8480
LCS 880-8480/2-A	Lab Control Sample	Soluble	Solid	300.0	8480
LCSD 880-8480/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8480
880-6474-164 MS	C-630	Soluble	Solid	300.0	8480
880-6474-164 MSD	C-630	Soluble	Solid	300.0	8480

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-467

Lab Sample ID: 880-6474-1

Date Collected: 09/21/21 11:16

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 00:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 11:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			8554	09/29/21 22:58	CH	XEN MID

Client Sample ID: C-468

Lab Sample ID: 880-6474-2

Date Collected: 09/21/21 11:19

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 00:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 12:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			8554	09/29/21 23:15	CH	XEN MID

Client Sample ID: C-469

Lab Sample ID: 880-6474-3

Date Collected: 09/21/21 11:21

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 00:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 13:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			8554	09/29/21 23:21	CH	XEN MID

Client Sample ID: C-470

Lab Sample ID: 880-6474-4

Date Collected: 09/21/21 11:24

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 01:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-470**Lab Sample ID: 880-6474-4****Date Collected: 09/21/21 11:24****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 13:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			8554	09/29/21 23:27	CH	XEN MID

Client Sample ID: C-471**Lab Sample ID: 880-6474-5****Date Collected: 09/21/21 11:27****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 01:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 14:04	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			8554	09/29/21 23:32	CH	XEN MID

Client Sample ID: C-472**Lab Sample ID: 880-6474-6****Date Collected: 09/21/21 11:30****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 01:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 14:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			8554	09/29/21 23:49	CH	XEN MID

Client Sample ID: C-473**Lab Sample ID: 880-6474-7****Date Collected: 09/21/21 13:00****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 02:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 14:47	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-473

Lab Sample ID: 880-6474-7

Date Collected: 09/21/21 13:00

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		5			8554	09/29/21 23:55	CH	XEN MID

Client Sample ID: C-474

Lab Sample ID: 880-6474-8

Date Collected: 09/21/21 13:05

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 02:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 15:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			8554	09/30/21 00:00	CH	XEN MID

Client Sample ID: C-475

Lab Sample ID: 880-6474-9

Date Collected: 09/21/21 13:10

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 02:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 15:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			8554	09/30/21 00:06	CH	XEN MID

Client Sample ID: C-476

Lab Sample ID: 880-6474-10

Date Collected: 09/21/21 13:15

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 03:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 15:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			8554	09/30/21 00:11	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-477

Lab Sample ID: 880-6474-11

Date Collected: 09/21/21 13:20

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 04:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 16:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			8554	09/30/21 00:17	CH	XEN MID

Client Sample ID: C-478

Lab Sample ID: 880-6474-12

Date Collected: 09/21/21 13:25

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 04:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 16:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			8554	09/30/21 00:34	CH	XEN MID

Client Sample ID: C-479

Lab Sample ID: 880-6474-13

Date Collected: 09/21/21 13:30

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 05:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 17:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8449	09/27/21 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			8554	09/30/21 00:39	CH	XEN MID

Client Sample ID: C-480

Lab Sample ID: 880-6474-14

Date Collected: 09/21/21 13:35

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 05:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-480

Lab Sample ID: 880-6474-14

Date Collected: 09/21/21 13:35

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 17:42	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			8555	10/01/21 14:40	CH	XEN MID

Client Sample ID: C-481

Lab Sample ID: 880-6474-15

Date Collected: 09/21/21 13:40

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 05:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 18:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			8555	10/01/21 14:59	CH	XEN MID

Client Sample ID: C-482

Lab Sample ID: 880-6474-16

Date Collected: 09/21/21 13:45

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 06:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 18:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			8555	10/01/21 15:05	CH	XEN MID

Client Sample ID: C-483

Lab Sample ID: 880-6474-17

Date Collected: 09/21/21 13:50

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 06:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 18:48	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-483

Lab Sample ID: 880-6474-17

Date Collected: 09/21/21 13:50

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			8555	10/01/21 15:11	CH	XEN MID

Client Sample ID: C-484

Lab Sample ID: 880-6474-18

Date Collected: 09/21/21 13:55

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 06:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			8555	10/01/21 15:18	CH	XEN MID

Client Sample ID: C-485

Lab Sample ID: 880-6474-19

Date Collected: 09/21/21 14:30

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 07:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			8555	10/01/21 15:37	CH	XEN MID

Client Sample ID: C-486

Lab Sample ID: 880-6474-20

Date Collected: 09/21/21 14:32

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8518	09/28/21 13:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/30/21 07:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8437	09/27/21 09:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 19:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		10			8555	10/01/21 15:43	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-487

Lab Sample ID: 880-6474-21

Date Collected: 09/21/21 14:34

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 07:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/27/21 21:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			8555	10/01/21 15:49	CH	XEN MID

Client Sample ID: C-488

Lab Sample ID: 880-6474-22

Date Collected: 09/21/21 14:36

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 07:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/27/21 22:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			8555	10/01/21 15:55	CH	XEN MID

Client Sample ID: C-489

Lab Sample ID: 880-6474-23

Date Collected: 09/21/21 14:38

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 07:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/27/21 23:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			8555	10/01/21 16:02	CH	XEN MID

Client Sample ID: C-490

Lab Sample ID: 880-6474-24

Date Collected: 09/21/21 14:40

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 08:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-490**Lab Sample ID: 880-6474-24****Date Collected: 09/21/21 14:40****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/27/21 23:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			8555	10/01/21 16:08	CH	XEN MID

Client Sample ID: C-491**Lab Sample ID: 880-6474-25****Date Collected: 09/22/21 10:00****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 09:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/27/21 23:55	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			8555	10/01/21 16:27	CH	XEN MID

Client Sample ID: C-492**Lab Sample ID: 880-6474-26****Date Collected: 09/22/21 10:02****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 09:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 00:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			8555	10/01/21 16:33	CH	XEN MID

Client Sample ID: C-493**Lab Sample ID: 880-6474-27****Date Collected: 09/22/21 10:04****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 10:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 00:37	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-493

Lab Sample ID: 880-6474-27

Date Collected: 09/22/21 10:04

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			8555	10/01/21 16:52	CH	XEN MID

Client Sample ID: C-494

Lab Sample ID: 880-6474-28

Date Collected: 09/22/21 10:06

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 10:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 00:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			8555	10/01/21 16:58	CH	XEN MID

Client Sample ID: C-495

Lab Sample ID: 880-6474-29

Date Collected: 09/22/21 10:08

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 10:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 01:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			8555	10/01/21 17:04	CH	XEN MID

Client Sample ID: C-496

Lab Sample ID: 880-6474-30

Date Collected: 09/22/21 10:10

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 11:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 01:40	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			8555	10/01/21 17:11	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-497

Lab Sample ID: 880-6474-31

Date Collected: 09/22/21 10:12

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 13:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 02:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			8555	10/01/21 17:17	CH	XEN MID

Client Sample ID: C-498

Lab Sample ID: 880-6474-32

Date Collected: 09/22/21 10:14

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 13:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 02:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			8555	10/01/21 17:23	CH	XEN MID

Client Sample ID: C-499

Lab Sample ID: 880-6474-33

Date Collected: 09/22/21 10:16

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 14:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 03:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8451	09/27/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			8555	10/01/21 17:29	CH	XEN MID

Client Sample ID: C-500

Lab Sample ID: 880-6474-34

Date Collected: 09/22/21 10:18

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 14:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-500

Lab Sample ID: 880-6474-34

Date Collected: 09/22/21 10:18

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 03:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 05:31	CH	XEN MID

Client Sample ID: C-501

Lab Sample ID: 880-6474-35

Date Collected: 09/22/21 10:20

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 14:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 03:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 05:48	CH	XEN MID

Client Sample ID: C-502

Lab Sample ID: 880-6474-36

Date Collected: 09/22/21 10:22

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 15:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 04:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 05:54	CH	XEN MID

Client Sample ID: C-503

Lab Sample ID: 880-6474-37

Date Collected: 09/22/21 10:24

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 15:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 04:29	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-503**Lab Sample ID: 880-6474-37****Date Collected: 09/22/21 10:24****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		5			8597	09/30/21 05:59	CH	XEN MID

Client Sample ID: C-504**Lab Sample ID: 880-6474-38****Date Collected: 09/22/21 10:26****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 16:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 04:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		5			8597	09/30/21 06:05	CH	XEN MID

Client Sample ID: C-505**Lab Sample ID: 880-6474-39****Date Collected: 09/22/21 10:28****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 16:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 05:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 06:22	CH	XEN MID

Client Sample ID: C-506**Lab Sample ID: 880-6474-40****Date Collected: 09/22/21 10:30****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8519	09/28/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 17:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8714	10/01/21 09:18	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8463	09/27/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8431	09/28/21 05:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 06:27	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-507**Lab Sample ID: 880-6474-41****Date Collected: 09/22/21 10:32****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 15:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 21:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 06:33	CH	XEN MID

Client Sample ID: C-508**Lab Sample ID: 880-6474-42****Date Collected: 09/22/21 10:34****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 15:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 22:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		5			8597	09/30/21 06:39	CH	XEN MID

Client Sample ID: C-509**Lab Sample ID: 880-6474-43****Date Collected: 09/22/21 10:36****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 15:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 23:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 06:44	CH	XEN MID

Client Sample ID: C-510**Lab Sample ID: 880-6474-44****Date Collected: 09/22/21 10:38****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 16:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-510

Lab Sample ID: 880-6474-44

Date Collected: 09/22/21 10:38

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 23:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 06:50	CH	XEN MID

Client Sample ID: C-511

Lab Sample ID: 880-6474-45

Date Collected: 09/22/21 10:40

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 16:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/27/21 23:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 07:07	CH	XEN MID

Client Sample ID: C-512

Lab Sample ID: 880-6474-46

Date Collected: 09/22/21 10:42

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 16:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 00:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 07:12	CH	XEN MID

Client Sample ID: C-513

Lab Sample ID: 880-6474-47

Date Collected: 09/22/21 10:44

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 17:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 00:37	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-513

Lab Sample ID: 880-6474-47

Date Collected: 09/22/21 10:44

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 07:29	CH	XEN MID

Client Sample ID: C-514

Lab Sample ID: 880-6474-48

Date Collected: 09/22/21 10:46

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 17:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 00:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 07:35	CH	XEN MID

Client Sample ID: C-514

Lab Sample ID: 880-6474-49

Date Collected: 09/22/21 10:48

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 17:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 01:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		5			8597	09/30/21 07:40	CH	XEN MID

Client Sample ID: C-516

Lab Sample ID: 880-6474-50

Date Collected: 09/22/21 10:50

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 18:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 12:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 01:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		5			8597	09/30/21 13:23	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-517

Lab Sample ID: 880-6474-51

Date Collected: 09/22/21 10:52

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 20:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 02:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		5			8597	09/30/21 13:29	CH	XEN MID

Client Sample ID: C-518

Lab Sample ID: 880-6474-52

Date Collected: 09/22/21 10:54

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 20:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 02:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		5			8597	09/30/21 07:57	CH	XEN MID

Client Sample ID: C-519

Lab Sample ID: 880-6474-53

Date Collected: 09/22/21 10:56

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 20:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 03:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8452	09/27/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			8597	09/30/21 08:03	CH	XEN MID

Client Sample ID: C-520

Lab Sample ID: 880-6474-54

Date Collected: 09/22/21 10:58

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 21:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-520

Lab Sample ID: 880-6474-54

Date Collected: 09/22/21 10:58

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 03:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 19:47	CH	XEN MID

Client Sample ID: C-521

Lab Sample ID: 880-6474-55

Date Collected: 09/22/21 11:00

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 21:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 03:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 20:05	CH	XEN MID

Client Sample ID: C-522

Lab Sample ID: 880-6474-56

Date Collected: 09/22/21 11:02

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 21:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 04:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 20:11	CH	XEN MID

Client Sample ID: C-523

Lab Sample ID: 880-6474-57

Date Collected: 09/22/21 11:04

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 22:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 04:29	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-523

Lab Sample ID: 880-6474-57

Date Collected: 09/22/21 11:04

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 20:17	CH	XEN MID

Client Sample ID: C-524

Lab Sample ID: 880-6474-58

Date Collected: 09/22/21 11:06

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 22:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 04:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		5			8598	09/30/21 20:24	CH	XEN MID

Client Sample ID: C-525

Lab Sample ID: 880-6474-59

Date Collected: 09/22/21 11:08

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 22:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 05:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 20:42	CH	XEN MID

Client Sample ID: C-526

Lab Sample ID: 880-6474-60

Date Collected: 09/22/21 11:10

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8520	09/28/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/01/21 23:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8466	09/27/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8433	09/28/21 05:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		5			8598	09/30/21 20:48	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-527

Lab Sample ID: 880-6474-61

Date Collected: 09/22/21 11:12

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	09/30/21 23:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 11:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		5			8598	09/30/21 20:54	CH	XEN MID

Client Sample ID: C-528

Lab Sample ID: 880-6474-62

Date Collected: 09/22/21 11:14

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	09/30/21 23:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 12:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 21:01	CH	XEN MID

Client Sample ID: C-529

Lab Sample ID: 880-6474-63

Date Collected: 09/22/21 11:16

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 00:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 12:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		5			8598	09/30/21 21:07	CH	XEN MID

Client Sample ID: C-531

Lab Sample ID: 880-6474-64

Date Collected: 09/22/21 11:18

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 00:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-531

Lab Sample ID: 880-6474-64

Date Collected: 09/22/21 11:18

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 13:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 21:13	CH	XEN MID

Client Sample ID: C-531

Lab Sample ID: 880-6474-65

Date Collected: 09/22/21 11:20

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 00:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 13:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 21:31	CH	XEN MID

Client Sample ID: C-532

Lab Sample ID: 880-6474-66

Date Collected: 09/22/21 11:22

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 01:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 13:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 21:38	CH	XEN MID

Client Sample ID: C-533

Lab Sample ID: 880-6474-67

Date Collected: 09/22/21 11:24

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 01:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 14:10	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-533**Lab Sample ID: 880-6474-67****Date Collected: 09/22/21 11:24****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 21:56	CH	XEN MID

Client Sample ID: C-534**Lab Sample ID: 880-6474-68****Date Collected: 09/22/21 11:26****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 01:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 22:02	CH	XEN MID

Client Sample ID: C-535**Lab Sample ID: 880-6474-69****Date Collected: 09/22/21 11:28****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 02:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 14:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 22:08	CH	XEN MID

Client Sample ID: C-536**Lab Sample ID: 880-6474-70****Date Collected: 09/22/21 11:30****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 02:27	KL	XEN MID
Total/NA	Prep	5035			5.01 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 03:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 15:15	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-536**Lab Sample ID: 880-6474-70****Date Collected: 09/22/21 11:30****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 22:14	CH	XEN MID

Client Sample ID: C-537**Lab Sample ID: 880-6474-71****Date Collected: 09/22/21 11:32****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 04:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 15:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 22:21	CH	XEN MID

Client Sample ID: C-538**Lab Sample ID: 880-6474-72****Date Collected: 09/22/21 11:34****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 04:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 16:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 22:27	CH	XEN MID

Client Sample ID: C-539**Lab Sample ID: 880-6474-73****Date Collected: 09/22/21 11:36****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 04:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 16:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8453	09/27/21 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			8598	09/30/21 22:33	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-540

Lab Sample ID: 880-6474-74

Date Collected: 09/22/21 11:38

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 05:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 17:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	09/30/21 23:22	CH	XEN MID

Client Sample ID: C-541

Lab Sample ID: 880-6474-75

Date Collected: 09/22/21 11:40

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 05:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	09/30/21 23:41	CH	XEN MID

Client Sample ID: C-542

Lab Sample ID: 880-6474-76

Date Collected: 09/22/21 11:42

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 05:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 17:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	09/30/21 23:47	CH	XEN MID

Client Sample ID: C-543

Lab Sample ID: 880-6474-77

Date Collected: 09/22/21 11:44

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 06:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-543

Lab Sample ID: 880-6474-77

Date Collected: 09/22/21 11:44

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	09/30/21 23:53	CH	XEN MID

Client Sample ID: C-544

Lab Sample ID: 880-6474-78

Date Collected: 09/22/21 11:46

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 06:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	09/30/21 23:59	CH	XEN MID

Client Sample ID: C-545

Lab Sample ID: 880-6474-79

Date Collected: 09/22/21 11:48

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 06:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 18:52	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 00:18	CH	XEN MID

Client Sample ID: C-546

Lab Sample ID: 880-6474-80

Date Collected: 09/22/21 11:50

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8521	09/28/21 13:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	10/01/21 07:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8470	09/27/21 14:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 19:14	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-546**Lab Sample ID: 880-6474-80****Date Collected: 09/22/21 11:50****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 00:24	CH	XEN MID

Client Sample ID: C-547**Lab Sample ID: 880-6474-81****Date Collected: 09/22/21 11:52****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	09/30/21 23:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 11:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 00:30	CH	XEN MID

Client Sample ID: C-548**Lab Sample ID: 880-6474-82****Date Collected: 09/22/21 11:54****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	09/30/21 23:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 12:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 00:36	CH	XEN MID

Client Sample ID: C-549**Lab Sample ID: 880-6474-83****Date Collected: 09/22/21 11:56****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 00:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 12:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 00:42	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-550

Lab Sample ID: 880-6474-84

Date Collected: 09/22/21 11:58

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 00:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 13:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 00:48	CH	XEN MID

Client Sample ID: C-551

Lab Sample ID: 880-6474-85

Date Collected: 09/22/21 12:00

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 00:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 13:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 01:07	CH	XEN MID

Client Sample ID: C-552

Lab Sample ID: 880-6474-86

Date Collected: 09/22/21 12:02

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 01:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 13:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 01:13	CH	XEN MID

Client Sample ID: C-553

Lab Sample ID: 880-6474-87

Date Collected: 09/22/21 12:04

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 01:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-553

Lab Sample ID: 880-6474-87

Date Collected: 09/22/21 12:04

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 14:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 01:32	CH	XEN MID

Client Sample ID: C-554

Lab Sample ID: 880-6474-88

Date Collected: 09/22/21 12:06

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 01:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 01:38	CH	XEN MID

Client Sample ID: C-555

Lab Sample ID: 880-6474-89

Date Collected: 09/22/21 12:08

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 02:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 14:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 01:44	CH	XEN MID

Client Sample ID: C-556

Lab Sample ID: 880-6474-90

Date Collected: 09/22/21 12:10

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 02:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 15:15	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-556**Lab Sample ID: 880-6474-90****Date Collected: 09/22/21 12:10****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 01:50	CH	XEN MID

Client Sample ID: C-557**Lab Sample ID: 880-6474-91****Date Collected: 09/22/21 12:12****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 04:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 15:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 01:56	CH	XEN MID

Client Sample ID: C-558**Lab Sample ID: 880-6474-92****Date Collected: 09/22/21 12:14****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 04:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 16:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 02:02	CH	XEN MID

Client Sample ID: C-559**Lab Sample ID: 880-6474-93****Date Collected: 09/22/21 12:16****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 04:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 16:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8454	09/27/21 11:53	CH	XEN MID
Soluble	Analysis	300.0		1			8600	10/01/21 02:08	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-560

Lab Sample ID: 880-6474-94

Date Collected: 09/22/21 12:18

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 05:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 17:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 02:58	CH	XEN MID

Client Sample ID: C-561

Lab Sample ID: 880-6474-95

Date Collected: 09/22/21 12:20

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 05:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 03:16	CH	XEN MID

Client Sample ID: C-562

Lab Sample ID: 880-6474-96

Date Collected: 09/23/21 08:30

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 05:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 17:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		5			8601	10/01/21 03:22	CH	XEN MID

Client Sample ID: C-563

Lab Sample ID: 880-6474-97

Date Collected: 09/23/21 08:32

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 06:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-563

Lab Sample ID: 880-6474-97

Date Collected: 09/23/21 08:32

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 03:29	CH	XEN MID

Client Sample ID: C-564

Lab Sample ID: 880-6474-98

Date Collected: 09/23/21 08:34

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 06:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 03:35	CH	XEN MID

Client Sample ID: C-565

Lab Sample ID: 880-6474-99

Date Collected: 09/23/21 08:36

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 06:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 18:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 03:53	CH	XEN MID

Client Sample ID: C-566

Lab Sample ID: 880-6474-100

Date Collected: 09/23/21 08:38

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8522	09/28/21 13:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8637	10/01/21 07:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8647	09/30/21 11:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8471	09/27/21 15:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 19:14	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-566**Lab Sample ID: 880-6474-100****Date Collected: 09/23/21 08:38****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 03:59	CH	XEN MID

Client Sample ID: C-567**Lab Sample ID: 880-6474-101****Date Collected: 09/23/21 08:40****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 02:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 21:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 04:05	CH	XEN MID

Client Sample ID: C-568**Lab Sample ID: 880-6474-102****Date Collected: 09/23/21 08:42****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 03:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 22:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 04:12	CH	XEN MID

Client Sample ID: C-569**Lab Sample ID: 880-6474-103****Date Collected: 09/23/21 08:44****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 03:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 22:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 04:18	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-570**Lab Sample ID: 880-6474-104****Date Collected: 09/23/21 08:46****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 03:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 22:55	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 04:24	CH	XEN MID

Client Sample ID: C-571**Lab Sample ID: 880-6474-105****Date Collected: 09/23/21 08:48****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 04:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 23:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 04:42	CH	XEN MID

Client Sample ID: C-572**Lab Sample ID: 880-6474-106****Date Collected: 09/23/21 08:50****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 04:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/28/21 23:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 04:49	CH	XEN MID

Client Sample ID: C-573**Lab Sample ID: 880-6474-107****Date Collected: 09/23/21 08:52****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 04:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-573

Lab Sample ID: 880-6474-107

Date Collected: 09/23/21 08:52

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 00:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 05:07	CH	XEN MID

Client Sample ID: C-574

Lab Sample ID: 880-6474-108

Date Collected: 09/23/21 08:54

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 05:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 00:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 05:13	CH	XEN MID

Client Sample ID: C-575

Lab Sample ID: 880-6474-109

Date Collected: 09/23/21 08:56

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 05:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 00:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8455	09/27/21 11:55	CH	XEN MID
Soluble	Analysis	300.0		1			8601	10/01/21 05:19	CH	XEN MID

Client Sample ID: C-576

Lab Sample ID: 880-6474-110

Date Collected: 09/23/21 08:58

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 05:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 01:10	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-576**Lab Sample ID: 880-6474-110****Date Collected: 09/23/21 08:58****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 08:41	CH	XEN MID

Client Sample ID: C-578**Lab Sample ID: 880-6474-111****Date Collected: 09/23/21 09:00****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 07:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 01:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 08:58	CH	XEN MID

Client Sample ID: C-579**Lab Sample ID: 880-6474-112****Date Collected: 09/23/21 09:02****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 07:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 02:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 09:04	CH	XEN MID

Client Sample ID: C-580**Lab Sample ID: 880-6474-113****Date Collected: 09/23/21 09:04****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 08:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 02:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 09:09	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-581

Lab Sample ID: 880-6474-114

Date Collected: 09/23/21 09:06

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 08:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 03:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 09:15	CH	XEN MID

Client Sample ID: C-582

Lab Sample ID: 880-6474-115

Date Collected: 09/23/21 09:08

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 08:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 03:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 09:32	CH	XEN MID

Client Sample ID: C-583

Lab Sample ID: 880-6474-116

Date Collected: 09/23/21 09:10

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 09:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 03:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 09:38	CH	XEN MID

Client Sample ID: C-584

Lab Sample ID: 880-6474-117

Date Collected: 09/23/21 09:12

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 09:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-584

Lab Sample ID: 880-6474-117

Date Collected: 09/23/21 09:12

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 04:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 09:43	CH	XEN MID

Client Sample ID: C-585

Lab Sample ID: 880-6474-118

Date Collected: 09/23/21 09:14

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 09:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 04:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 09:49	CH	XEN MID

Client Sample ID: C-586

Lab Sample ID: 880-6474-119

Date Collected: 09/23/21 09:16

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 10:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 04:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 09:54	CH	XEN MID

Client Sample ID: C-587

Lab Sample ID: 880-6474-120

Date Collected: 09/23/21 09:18

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8523	09/28/21 13:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8722	10/02/21 10:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8501	09/28/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8492	09/29/21 05:14	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-587

Lab Sample ID: 880-6474-120

Date Collected: 09/23/21 09:18

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 10:00	CH	XEN MID

Client Sample ID: C-588

Lab Sample ID: 880-6474-121

Date Collected: 09/23/21 09:20

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/01/21 23:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 21:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 10:17	CH	XEN MID

Client Sample ID: C-589

Lab Sample ID: 880-6474-122

Date Collected: 09/23/21 09:22

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 00:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 22:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 10:22	CH	XEN MID

Client Sample ID: C-590

Lab Sample ID: 880-6474-123

Date Collected: 09/23/21 09:24

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 00:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 22:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8456	09/27/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			8602	10/01/21 10:39	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-591

Lab Sample ID: 880-6474-124

Date Collected: 09/23/21 09:26

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 00:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 22:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		1			8710	09/30/21 22:26	CH	XEN MID

Client Sample ID: C-592

Lab Sample ID: 880-6474-125

Date Collected: 09/23/21 09:28

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 01:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 23:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		5			8710	09/30/21 22:43	CH	XEN MID

Client Sample ID: C-593

Lab Sample ID: 880-6474-126

Date Collected: 09/23/21 09:30

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 01:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/28/21 23:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		5			8710	09/30/21 22:49	CH	XEN MID

Client Sample ID: C-594

Lab Sample ID: 880-6474-127

Date Collected: 09/23/21 09:32

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 01:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-594

Lab Sample ID: 880-6474-127

Date Collected: 09/23/21 09:32

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 00:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		5			8710	09/30/21 22:54	CH	XEN MID

Client Sample ID: C-595

Lab Sample ID: 880-6474-128

Date Collected: 09/23/21 09:34

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 02:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 00:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		1			8710	09/30/21 23:00	CH	XEN MID

Client Sample ID: C-596

Lab Sample ID: 880-6474-129

Date Collected: 09/23/21 09:36

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 02:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 00:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		1			8710	09/30/21 23:17	CH	XEN MID

Client Sample ID: C-597

Lab Sample ID: 880-6474-130

Date Collected: 09/23/21 09:38

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 02:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 01:10	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-597**Lab Sample ID: 880-6474-130****Date Collected: 09/23/21 09:38****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		5			8710	09/30/21 23:23	CH	XEN MID

Client Sample ID: C-598**Lab Sample ID: 880-6474-131****Date Collected: 09/23/21 09:40****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 04:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 01:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		5			8710	09/30/21 23:29	CH	XEN MID

Client Sample ID: C-599**Lab Sample ID: 880-6474-132****Date Collected: 09/23/21 09:42****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 04:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 02:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		5			8710	09/30/21 23:34	CH	XEN MID

Client Sample ID: C-600**Lab Sample ID: 880-6474-133****Date Collected: 09/23/21 09:44****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 05:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 02:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		1			8710	09/30/21 23:40	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-601

Lab Sample ID: 880-6474-134

Date Collected: 09/23/21 09:46

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 05:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 03:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		1			8710	09/30/21 23:46	CH	XEN MID

Client Sample ID: C-602

Lab Sample ID: 880-6474-135

Date Collected: 09/23/21 09:48

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 05:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 03:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		5			8710	10/01/21 00:03	CH	XEN MID

Client Sample ID: C-603

Lab Sample ID: 880-6474-136

Date Collected: 09/23/21 09:50

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 06:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 03:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		5			8710	10/01/21 00:09	CH	XEN MID

Client Sample ID: C-604

Lab Sample ID: 880-6474-137

Date Collected: 09/23/21 09:52

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 06:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-604

Lab Sample ID: 880-6474-137

Date Collected: 09/23/21 09:52

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 04:09	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		5			8710	10/01/21 00:26	CH	XEN MID

Client Sample ID: C-605

Lab Sample ID: 880-6474-138

Date Collected: 09/23/21 09:54

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 06:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 04:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		1			8710	10/01/21 00:32	CH	XEN MID

Client Sample ID: C-606

Lab Sample ID: 880-6474-139

Date Collected: 09/23/21 09:56

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 07:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 04:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		1			8710	10/01/21 00:37	CH	XEN MID

Client Sample ID: C-607

Lab Sample ID: 880-6474-140

Date Collected: 09/23/21 09:58

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8524	09/28/21 13:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 07:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/01/21 10:20	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8503	09/28/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8494	09/29/21 05:14	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-607**Lab Sample ID: 880-6474-140****Date Collected: 09/23/21 09:58****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		1			8710	10/01/21 00:43	CH	XEN MID

Client Sample ID: C-607-2**Lab Sample ID: 880-6474-141****Date Collected: 09/23/21 10:00****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 00:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/01/21 10:25	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 11:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		1			8710	10/01/21 00:49	CH	XEN MID

Client Sample ID: C-608**Lab Sample ID: 880-6474-142****Date Collected: 09/23/21 10:02****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 00:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 12:22	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		1			8710	10/01/21 00:55	CH	XEN MID

Client Sample ID: C-609**Lab Sample ID: 880-6474-143****Date Collected: 09/23/21 10:04****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 00:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 12:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8478	09/27/21 16:08	CH	XEN MID
Soluble	Analysis	300.0		1			8710	10/01/21 01:00	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-610

Lab Sample ID: 880-6474-144

Date Collected: 09/23/21 10:06

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 01:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 13:06	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 12:54	CH	XEN MID

Client Sample ID: C-611

Lab Sample ID: 880-6474-145

Date Collected: 09/23/21 10:08

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 01:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 13:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 13:14	CH	XEN MID

Client Sample ID: C-612

Lab Sample ID: 880-6474-146

Date Collected: 09/23/21 10:10

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 01:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 13:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 13:20	CH	XEN MID

Client Sample ID: C-613

Lab Sample ID: 880-6474-147

Date Collected: 09/23/21 10:12

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 02:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-613

Lab Sample ID: 880-6474-147

Date Collected: 09/23/21 10:12

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 14:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 13:26	CH	XEN MID

Client Sample ID: C-614

Lab Sample ID: 880-6474-148

Date Collected: 09/23/21 10:14

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 02:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 13:33	CH	XEN MID

Client Sample ID: C-615

Lab Sample ID: 880-6474-149

Date Collected: 09/23/21 10:16

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 02:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 14:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 13:52	CH	XEN MID

Client Sample ID: C-616

Lab Sample ID: 880-6474-150

Date Collected: 09/23/21 10:18

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 03:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 15:17	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-616**Lab Sample ID: 880-6474-150****Date Collected: 09/23/21 10:18****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 13:59	CH	XEN MID

Client Sample ID: C-617**Lab Sample ID: 880-6474-151****Date Collected: 09/23/21 10:20****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 04:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/01/21 10:25	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 16:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		5			8739	10/01/21 16:22	CH	XEN MID

Client Sample ID: C-618**Lab Sample ID: 880-6474-152****Date Collected: 09/23/21 10:22****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 04:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/01/21 10:25	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 16:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 14:12	CH	XEN MID

Client Sample ID: C-619**Lab Sample ID: 880-6474-153****Date Collected: 09/23/21 10:24****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 05:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 16:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		5			8739	10/01/21 14:18	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-620

Lab Sample ID: 880-6474-154

Date Collected: 09/23/21 10:26

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 05:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 17:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 14:25	CH	XEN MID

Client Sample ID: C-621

Lab Sample ID: 880-6474-155

Date Collected: 09/23/21 10:28

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 05:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 17:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 14:44	CH	XEN MID

Client Sample ID: C-622

Lab Sample ID: 880-6474-156

Date Collected: 09/23/21 10:30

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 06:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 17:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 14:50	CH	XEN MID

Client Sample ID: C-623

Lab Sample ID: 880-6474-157

Date Collected: 09/23/21 10:32

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 06:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-623

Lab Sample ID: 880-6474-157

Date Collected: 09/23/21 10:32

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 18:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 15:10	CH	XEN MID

Client Sample ID: C-624

Lab Sample ID: 880-6474-158

Date Collected: 09/23/21 10:34

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 06:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 18:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 15:16	CH	XEN MID

Client Sample ID: C-625

Lab Sample ID: 880-6474-159

Date Collected: 09/23/21 10:36

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 07:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 18:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 15:23	CH	XEN MID

Client Sample ID: C-626

Lab Sample ID: 880-6474-160

Date Collected: 09/23/21 10:38

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8526	09/28/21 13:27	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 07:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8509	09/28/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8565	09/29/21 19:16	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-626**Lab Sample ID: 880-6474-160****Date Collected: 09/23/21 10:38****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 15:29	CH	XEN MID

Client Sample ID: C-627**Lab Sample ID: 880-6474-161****Date Collected: 09/23/21 10:40****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8517	09/28/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/29/21 18:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8485	09/27/21 16:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/28/21 03:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 15:36	CH	XEN MID

Client Sample ID: C-628**Lab Sample ID: 880-6474-162****Date Collected: 09/23/21 10:42****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8517	09/28/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/29/21 19:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8485	09/27/21 16:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/28/21 03:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 15:42	CH	XEN MID

Client Sample ID: C-629**Lab Sample ID: 880-6474-163****Date Collected: 09/23/21 10:44****Matrix: Solid****Date Received: 09/24/21 16:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8517	09/28/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/29/21 19:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8485	09/27/21 16:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/28/21 04:06	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8479	09/27/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1			8739	10/01/21 15:48	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Client Sample ID: C-630

Lab Sample ID: 880-6474-164

Date Collected: 09/23/21 10:46

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8517	09/28/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1			8607	09/29/21 15:33	KL	XEN MID
Total/NA	Prep	5035			5.01 g	5 mL	8517	09/28/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/29/21 19:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8485	09/27/21 16:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/28/21 04:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 17:05	CH	XEN MID

Client Sample ID: C-631

Lab Sample ID: 880-6474-165

Date Collected: 09/23/21 10:48

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8517	09/28/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1			8607	09/29/21 15:33	KL	XEN MID
Total/NA	Prep	5035			5.05 g	5 mL	8517	09/28/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/29/21 20:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8485	09/27/21 16:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/28/21 04:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 17:24	CH	XEN MID

Client Sample ID: C-632

Lab Sample ID: 880-6474-166

Date Collected: 09/23/21 10:50

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8517	09/28/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1			8607	09/29/21 15:33	KL	XEN MID
Total/NA	Prep	5035			4.96 g	5 mL	8517	09/28/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8572	09/29/21 20:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8696	09/30/21 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8663	09/30/21 16:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8485	09/27/21 16:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/28/21 05:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 17:30	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6474-1	C-467	Solid	09/21/21 11:16	09/24/21 16:08
880-6474-2	C-468	Solid	09/21/21 11:19	09/24/21 16:08
880-6474-3	C-469	Solid	09/21/21 11:21	09/24/21 16:08
880-6474-4	C-470	Solid	09/21/21 11:24	09/24/21 16:08
880-6474-5	C-471	Solid	09/21/21 11:27	09/24/21 16:08
880-6474-6	C-472	Solid	09/21/21 11:30	09/24/21 16:08
880-6474-7	C-473	Solid	09/21/21 13:00	09/24/21 16:08
880-6474-8	C-474	Solid	09/21/21 13:05	09/24/21 16:08
880-6474-9	C-475	Solid	09/21/21 13:10	09/24/21 16:08
880-6474-10	C-476	Solid	09/21/21 13:15	09/24/21 16:08
880-6474-11	C-477	Solid	09/21/21 13:20	09/24/21 16:08
880-6474-12	C-478	Solid	09/21/21 13:25	09/24/21 16:08
880-6474-13	C-479	Solid	09/21/21 13:30	09/24/21 16:08
880-6474-14	C-480	Solid	09/21/21 13:35	09/24/21 16:08
880-6474-15	C-481	Solid	09/21/21 13:40	09/24/21 16:08
880-6474-16	C-482	Solid	09/21/21 13:45	09/24/21 16:08
880-6474-17	C-483	Solid	09/21/21 13:50	09/24/21 16:08
880-6474-18	C-484	Solid	09/21/21 13:55	09/24/21 16:08
880-6474-19	C-485	Solid	09/21/21 14:30	09/24/21 16:08
880-6474-20	C-486	Solid	09/21/21 14:32	09/24/21 16:08
880-6474-21	C-487	Solid	09/21/21 14:34	09/24/21 16:08
880-6474-22	C-488	Solid	09/21/21 14:36	09/24/21 16:08
880-6474-23	C-489	Solid	09/21/21 14:38	09/24/21 16:08
880-6474-24	C-490	Solid	09/21/21 14:40	09/24/21 16:08
880-6474-25	C-491	Solid	09/22/21 10:00	09/24/21 16:08
880-6474-26	C-492	Solid	09/22/21 10:02	09/24/21 16:08
880-6474-27	C-493	Solid	09/22/21 10:04	09/24/21 16:08
880-6474-28	C-494	Solid	09/22/21 10:06	09/24/21 16:08
880-6474-29	C-495	Solid	09/22/21 10:08	09/24/21 16:08
880-6474-30	C-496	Solid	09/22/21 10:10	09/24/21 16:08
880-6474-31	C-497	Solid	09/22/21 10:12	09/24/21 16:08
880-6474-32	C-498	Solid	09/22/21 10:14	09/24/21 16:08
880-6474-33	C-499	Solid	09/22/21 10:16	09/24/21 16:08
880-6474-34	C-500	Solid	09/22/21 10:18	09/24/21 16:08
880-6474-35	C-501	Solid	09/22/21 10:20	09/24/21 16:08
880-6474-36	C-502	Solid	09/22/21 10:22	09/24/21 16:08
880-6474-37	C-503	Solid	09/22/21 10:24	09/24/21 16:08
880-6474-38	C-504	Solid	09/22/21 10:26	09/24/21 16:08
880-6474-39	C-505	Solid	09/22/21 10:28	09/24/21 16:08
880-6474-40	C-506	Solid	09/22/21 10:30	09/24/21 16:08
880-6474-41	C-507	Solid	09/22/21 10:32	09/24/21 16:08
880-6474-42	C-508	Solid	09/22/21 10:34	09/24/21 16:08
880-6474-43	C-509	Solid	09/22/21 10:36	09/24/21 16:08
880-6474-44	C-510	Solid	09/22/21 10:38	09/24/21 16:08
880-6474-45	C-511	Solid	09/22/21 10:40	09/24/21 16:08
880-6474-46	C-512	Solid	09/22/21 10:42	09/24/21 16:08
880-6474-47	C-513	Solid	09/22/21 10:44	09/24/21 16:08
880-6474-48	C-514	Solid	09/22/21 10:46	09/24/21 16:08
880-6474-49	C-514	Solid	09/22/21 10:48	09/24/21 16:08
880-6474-50	C-516	Solid	09/22/21 10:50	09/24/21 16:08
880-6474-51	C-517	Solid	09/22/21 10:52	09/24/21 16:08
880-6474-52	C-518	Solid	09/22/21 10:54	09/24/21 16:08
880-6474-53	C-519	Solid	09/22/21 10:56	09/24/21 16:08
880-6474-54	C-520	Solid	09/22/21 10:58	09/24/21 16:08

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6474-55	C-521	Solid	09/22/21 11:00	09/24/21 16:08
880-6474-56	C-522	Solid	09/22/21 11:02	09/24/21 16:08
880-6474-57	C-523	Solid	09/22/21 11:04	09/24/21 16:08
880-6474-58	C-524	Solid	09/22/21 11:06	09/24/21 16:08
880-6474-59	C-525	Solid	09/22/21 11:08	09/24/21 16:08
880-6474-60	C-526	Solid	09/22/21 11:10	09/24/21 16:08
880-6474-61	C-527	Solid	09/22/21 11:12	09/24/21 16:08
880-6474-62	C-528	Solid	09/22/21 11:14	09/24/21 16:08
880-6474-63	C-529	Solid	09/22/21 11:16	09/24/21 16:08
880-6474-64	C-531	Solid	09/22/21 11:18	09/24/21 16:08
880-6474-65	C-531	Solid	09/22/21 11:20	09/24/21 16:08
880-6474-66	C-532	Solid	09/22/21 11:22	09/24/21 16:08
880-6474-67	C-533	Solid	09/22/21 11:24	09/24/21 16:08
880-6474-68	C-534	Solid	09/22/21 11:26	09/24/21 16:08
880-6474-69	C-535	Solid	09/22/21 11:28	09/24/21 16:08
880-6474-70	C-536	Solid	09/22/21 11:30	09/24/21 16:08
880-6474-71	C-537	Solid	09/22/21 11:32	09/24/21 16:08
880-6474-72	C-538	Solid	09/22/21 11:34	09/24/21 16:08
880-6474-73	C-539	Solid	09/22/21 11:36	09/24/21 16:08
880-6474-74	C-540	Solid	09/22/21 11:38	09/24/21 16:08
880-6474-75	C-541	Solid	09/22/21 11:40	09/24/21 16:08
880-6474-76	C-542	Solid	09/22/21 11:42	09/24/21 16:08
880-6474-77	C-543	Solid	09/22/21 11:44	09/24/21 16:08
880-6474-78	C-544	Solid	09/22/21 11:46	09/24/21 16:08
880-6474-79	C-545	Solid	09/22/21 11:48	09/24/21 16:08
880-6474-80	C-546	Solid	09/22/21 11:50	09/24/21 16:08
880-6474-81	C-547	Solid	09/22/21 11:52	09/24/21 16:08
880-6474-82	C-548	Solid	09/22/21 11:54	09/24/21 16:08
880-6474-83	C-549	Solid	09/22/21 11:56	09/24/21 16:08
880-6474-84	C-550	Solid	09/22/21 11:58	09/24/21 16:08
880-6474-85	C-551	Solid	09/22/21 12:00	09/24/21 16:08
880-6474-86	C-552	Solid	09/22/21 12:02	09/24/21 16:08
880-6474-87	C-553	Solid	09/22/21 12:04	09/24/21 16:08
880-6474-88	C-554	Solid	09/22/21 12:06	09/24/21 16:08
880-6474-89	C-555	Solid	09/22/21 12:08	09/24/21 16:08
880-6474-90	C-556	Solid	09/22/21 12:10	09/24/21 16:08
880-6474-91	C-557	Solid	09/22/21 12:12	09/24/21 16:08
880-6474-92	C-558	Solid	09/22/21 12:14	09/24/21 16:08
880-6474-93	C-559	Solid	09/22/21 12:16	09/24/21 16:08
880-6474-94	C-560	Solid	09/22/21 12:18	09/24/21 16:08
880-6474-95	C-561	Solid	09/22/21 12:20	09/24/21 16:08
880-6474-96	C-562	Solid	09/23/21 08:30	09/24/21 16:08
880-6474-97	C-563	Solid	09/23/21 08:32	09/24/21 16:08
880-6474-98	C-564	Solid	09/23/21 08:34	09/24/21 16:08
880-6474-99	C-565	Solid	09/23/21 08:36	09/24/21 16:08
880-6474-100	C-566	Solid	09/23/21 08:38	09/24/21 16:08
880-6474-101	C-567	Solid	09/23/21 08:40	09/24/21 16:08
880-6474-102	C-568	Solid	09/23/21 08:42	09/24/21 16:08
880-6474-103	C-569	Solid	09/23/21 08:44	09/24/21 16:08
880-6474-104	C-570	Solid	09/23/21 08:46	09/24/21 16:08
880-6474-105	C-571	Solid	09/23/21 08:48	09/24/21 16:08
880-6474-106	C-572	Solid	09/23/21 08:50	09/24/21 16:08
880-6474-107	C-573	Solid	09/23/21 08:52	09/24/21 16:08
880-6474-108	C-574	Solid	09/23/21 08:54	09/24/21 16:08

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6474-109	C-575	Solid	09/23/21 08:56	09/24/21 16:08
880-6474-110	C-576	Solid	09/23/21 08:58	09/24/21 16:08
880-6474-111	C-578	Solid	09/23/21 09:00	09/24/21 16:08
880-6474-112	C-579	Solid	09/23/21 09:02	09/24/21 16:08
880-6474-113	C-580	Solid	09/23/21 09:04	09/24/21 16:08
880-6474-114	C-581	Solid	09/23/21 09:06	09/24/21 16:08
880-6474-115	C-582	Solid	09/23/21 09:08	09/24/21 16:08
880-6474-116	C-583	Solid	09/23/21 09:10	09/24/21 16:08
880-6474-117	C-584	Solid	09/23/21 09:12	09/24/21 16:08
880-6474-118	C-585	Solid	09/23/21 09:14	09/24/21 16:08
880-6474-119	C-586	Solid	09/23/21 09:16	09/24/21 16:08
880-6474-120	C-587	Solid	09/23/21 09:18	09/24/21 16:08
880-6474-121	C-588	Solid	09/23/21 09:20	09/24/21 16:08
880-6474-122	C-589	Solid	09/23/21 09:22	09/24/21 16:08
880-6474-123	C-590	Solid	09/23/21 09:24	09/24/21 16:08
880-6474-124	C-591	Solid	09/23/21 09:26	09/24/21 16:08
880-6474-125	C-592	Solid	09/23/21 09:28	09/24/21 16:08
880-6474-126	C-593	Solid	09/23/21 09:30	09/24/21 16:08
880-6474-127	C-594	Solid	09/23/21 09:32	09/24/21 16:08
880-6474-128	C-595	Solid	09/23/21 09:34	09/24/21 16:08
880-6474-129	C-596	Solid	09/23/21 09:36	09/24/21 16:08
880-6474-130	C-597	Solid	09/23/21 09:38	09/24/21 16:08
880-6474-131	C-598	Solid	09/23/21 09:40	09/24/21 16:08
880-6474-132	C-599	Solid	09/23/21 09:42	09/24/21 16:08
880-6474-133	C-600	Solid	09/23/21 09:44	09/24/21 16:08
880-6474-134	C-601	Solid	09/23/21 09:46	09/24/21 16:08
880-6474-135	C-602	Solid	09/23/21 09:48	09/24/21 16:08
880-6474-136	C-603	Solid	09/23/21 09:50	09/24/21 16:08
880-6474-137	C-604	Solid	09/23/21 09:52	09/24/21 16:08
880-6474-138	C-605	Solid	09/23/21 09:54	09/24/21 16:08
880-6474-139	C-606	Solid	09/23/21 09:56	09/24/21 16:08
880-6474-140	C-607	Solid	09/23/21 09:58	09/24/21 16:08
880-6474-141	C-607-2	Solid	09/23/21 10:00	09/24/21 16:08
880-6474-142	C-608	Solid	09/23/21 10:02	09/24/21 16:08
880-6474-143	C-609	Solid	09/23/21 10:04	09/24/21 16:08
880-6474-144	C-610	Solid	09/23/21 10:06	09/24/21 16:08
880-6474-145	C-611	Solid	09/23/21 10:08	09/24/21 16:08
880-6474-146	C-612	Solid	09/23/21 10:10	09/24/21 16:08
880-6474-147	C-613	Solid	09/23/21 10:12	09/24/21 16:08
880-6474-148	C-614	Solid	09/23/21 10:14	09/24/21 16:08
880-6474-149	C-615	Solid	09/23/21 10:16	09/24/21 16:08
880-6474-150	C-616	Solid	09/23/21 10:18	09/24/21 16:08
880-6474-151	C-617	Solid	09/23/21 10:20	09/24/21 16:08
880-6474-152	C-618	Solid	09/23/21 10:22	09/24/21 16:08
880-6474-153	C-619	Solid	09/23/21 10:24	09/24/21 16:08
880-6474-154	C-620	Solid	09/23/21 10:26	09/24/21 16:08
880-6474-155	C-621	Solid	09/23/21 10:28	09/24/21 16:08
880-6474-156	C-622	Solid	09/23/21 10:30	09/24/21 16:08
880-6474-157	C-623	Solid	09/23/21 10:32	09/24/21 16:08
880-6474-158	C-624	Solid	09/23/21 10:34	09/24/21 16:08
880-6474-159	C-625	Solid	09/23/21 10:36	09/24/21 16:08
880-6474-160	C-626	Solid	09/23/21 10:38	09/24/21 16:08
880-6474-161	C-627	Solid	09/23/21 10:40	09/24/21 16:08
880-6474-162	C-628	Solid	09/23/21 10:42	09/24/21 16:08

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 880-6474-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6474-163	C-629	Solid	09/23/21 10:44	09/24/21 16:08
880-6474-164	C-630	Solid	09/23/21 10:46	09/24/21 16:08
880-6474-165	C-631	Solid	09/23/21 10:48	09/24/21 16:08
880-6474-166	C-632	Solid	09/23/21 10:50	09/24/21 16:08

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[illegible]

Marson & Associates, Inc.
Environmental Consultants

507 N Marengfeld Ste 202
Midland TX 79701
432 687 0901

Data Reported to

DATE 9-24-21 PO# LAB WORK ORDER# 880-10474
PROJECT LOCATION OR NAME Palmco Aste COLLECTOR TP
LAI PROJECT # 21-0105-02

No. 2097
CHAIN-OF-CUSTODY

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time Zone/State
MST/NM

Field
Sample I D

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX MTBE ☐TRPH 418 1 ☐ TPH 1005 ☐ TPH 1006 ☐GASOLINE MOD 8015 ☐DIESEL - MOD 8015 ☐OIL - MOD 8015 ☐VOC 8260 ☐SVOC 8270 ☐8081 PESTICIDES ☐8082 PESTICIDES ☐TCLP - METALS (RCRA) ☐

TCLP - METALS (RCRA)

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No. 2098

CHAIN-OF-CUSTODY

Aarson &
Associates, Inc.
Environmental Consultants

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Midland TX 79701
432-687 0901

Data Reported to

DATE 9/24/21 PAGE 4 OF 12
PO# _____ LAB WORK ORDER# 880-4474
PROJECT LOCATION OR NAME Palma AS
LAI PROJECT # 21-0105-02 COLLECTOR TP

TRRP report?
☐ Yes ☒ No
TIME ZONE
Time zone/State
MST/ NM

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION	ANALYSES	FIELD NOTES
C-512		9-22-21	1042	S	1	HCl HNO ₃ H ₂ SO ₄ ☐ NaOH ☐ ICE UNPRESERVED	BTX ☒ MTBE ☐ TPH 418 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL - MOD 8015 ☐ OIL - MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ TCDF PCBs ☐ TCDF METALS (RCRA) ☐ TCDF VOC ☐ TOTAL METALS (RCRA) ☐ Semi-VOC ☐ LEAD - TOTAL ☐ DW 200 B ☐ TCDF ☐ RCL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PENTACHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
C-513			1044					
C-514			1046					
C-515			1048					
C-516			1050					
C-517			1052					
C-518			1054					
C-519			1056					
C-520			1058					
C-521			1100					
C-522			1102					
C-523			1104					
C-524			1106					
C-525			1108					
C-526			1110					
TOTAL 15								

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

LABORATORY

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

No. 2098

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No. 2099

CHAIN-OF-CUSTODY

Varson & Associates, Inc.
Environmental Consultants

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Midland TX 79701
432-687 0901

Data Reported to

DATE 9/24/21 PAGE 5 OF 12
PO# LAB WORK ORDER# 380-6474
PROJECT LOCATION OR NAME Palm 15C
LAI PROJECT # 21-0105-02 COLLECTOR TF

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
						HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			UNPRESERVED
C-527		9-22-21	1112	S	1					X		
C-528			1114							X		
C-529			1116							X		
C-530			1118							X		
C-531			1120							X		
C-532			1122							X		
C-533			1124							X		
C-534			1126							X		
C-535			1128							X		
C-536			1130							X		
C-537			1132							X		
C-538			1134							X		
C-539			1136							X		
C-540			1138							X		
C-541			1140							X		
TOTAL 15												

RELINQUISHED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21 1608</u>	RECEIVED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21 1608</u>
RELINQUISHED BY (Signature) <u>[Signature]</u>	DATE/TIME <u> </u>	RECEIVED BY (Signature) <u> </u>	DATE/TIME <u> </u>
RELINQUISHED BY (Signature) <u> </u>	DATE/TIME <u> </u>	RECEIVED BY (Signature) <u> </u>	DATE/TIME <u> </u>
LABORATORY <u>XENCO</u>	TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐		
LABORATORY USE ONLY: RECEIVING TEMP <u>14/19</u> THERM# <u>125</u> CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED CARRIER BILL # <u> </u> ☒ HAND DELIVERED			

Varson & Associates, Inc.
Environmental Consultants

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432-687 0901

Data Reported to

DATE 9-24-21 PAGE 6 OF 12
PO# _____ LAB WORK ORDER# 080-6474
PROJECT LOCATION OR NAME Palmie Ase
LAI PROJECT # 21-0105-02 COLLECTOR TP

No. 2100
CHAIN-OF-CUSTODY

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
						HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			UNPRESERVED
L-542		9-21-21	1142	S	1					☒		
L-543			1144							☒		
L-544			1146							☒		
L-545			1148							☒		
L-546			1150							☒		
L-547			1152							☒		
L-548			1154							☒		
L-549			1156							☒		
L-550			1158							☒		
L-551			1200							☒		
L-552			1202							☒		
L-553			1204							☒		
L-554			1206							☒		
L-555			1208							☒		
L-556			1210							☒		
TOTAL 15												

RELINQUISHED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21</u>	RECEIVED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21</u>
RELINQUISHED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21</u>	RECEIVED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21</u>
RELINQUISHED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21</u>	RECEIVED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21</u>
LABORATORY <u>Xenico</u>			

TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐	LABORATORY USE ONLY: RECEIVING TEMP <u>14/19</u> THERM# <u>128</u> CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED ☐ CARRIER BILL # _____ ☒ HAND DELIVERED
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Environmental Consultants

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432-687 0901

Data Reported to

DATE 9-24-21 PAGE 7 OF 12
PO# _____ LAB WORK ORDER# 880-6474
PROJECT LOCATION OR NAME Palma AS-1
LAI PROJECT # 21-065-02 COLLECTOR TP

No. 2101
CHAIN-OF-CUSTODY

TRRP report?		S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	TIME ZONE Time zone/State MST/MM		PRESERVATION		ANALYSES		FIELD NOTES	
Yes	No					HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE		UNPRESERVED
Field Sample ID	Lab #	Date	Time	Matrix	# of Containers						
C-5587		9-22-21	1212	5	1						
C-557		9-22-21	1212	5							
C-558			1214								
C-559			1216								
C-560			1218								
C-561			1220								
C-562		9-23-21	0830								
C-563			0832								
C-564			0834								
C-565			0836								
C-566			0838								
C-567			0840								
C-568			0842								
C-569			0844								
C-570			0846								
TOTAL 14											
RELINQUISHED BY (Signature) <u>[Signature]</u>					DATE/TIME <u>9/24/21 16:18</u>	RECEIVED BY (Signature) <u>[Signature]</u>					TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐
RELINQUISHED BY (Signature) _____					DATE/TIME _____	RECEIVED BY (Signature) _____					LABORATORY USE ONLY: RECEIVING TEMP <u>14/19</u> THERM# <u>128</u> CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☒ NOT USED ☐ CARRIER BILL # _____ ☒ HAND DELIVERED
RELINQUISHED BY (Signature) <u>Xenico</u>					DATE/TIME _____	RECEIVED BY (Signature) _____					

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Environmental Consultants

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Midland TX 79701
432-687 0901

Data Reported to

DATE 9/24/21 PAGE 8 OF 12
PO# _____ LAB WORK ORDER# 880-6474
PROJECT LOCATION OR NAME Blume Ast
LAI PROJECT # 21-065-02 COLLECTOR TP

No. 2102
CHAIN-OF-CUSTODY

TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		PRESERVATION		ANALYSES		FIELD NOTES																							
TIME ZONE	Time zone/State	Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☐ MTBE ☐	TPH 418 ☐ TPH 1005 ☐ TPH 1008 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	8081 PESTICIDES ☐	8082 PCBs ☐	TCLP METALS (RCRA) ☐	TCLP - PEST ☐	TOTAL METALS (RCRA) ☐	LEAD - TOTAL ☐	RCI ☐	TDS ☐	PH ☐	EXPLOSIVES ☐	CHLORIDES ☐	ANIONS ☐	ALKALINITY ☐	
		C-571		9-23-21	0848	S	1				X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-572			0850								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-573			0852								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-574			0854								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-575			0856								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-576			0858								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-578			0800								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-579			0902								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-580			0904								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-581			0906								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-582			0908								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-583			0910								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-584			0912								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-585			0914								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		C-586			0916								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TOTAL		15																															

Aarson & Associates, Inc.
Environmental Consultants

507 N Marensfeld, Ste 202
Midland TX 79701
432-687 0901

Data Reported to

DATE 7/24/21 PAGE 9 OF 12
PO# _____ LAB WORK ORDER# 880-16474
PROJECT LOCATION OR NAME Palm 957
LAI PROJECT # 21-0105-02 COLLECTOR TP

CHAIN-OF-CUSTODY

No. 2103

10/4/2021

[illegible]

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Varson & Associates, Inc.
Environmental Consultants

507 N Marengfeld Ste 202
Midland TX 79701
432-687 0901

Data Reported to

DATE 9/24/21 PAGE 6 OF 12
PO# LAB WORK ORDER# 880-6474
PROJECT LOCATION OR NAME Elm's 457
LAI PROJECT # 21-0165-02 COLLECTOR TP

CHAIN-OF-CUSTODY

No. 2104

10/4/2021

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION					ANALYSES		FIELD NOTES	
						HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☒ MTBE ☐	TPH 416 1 ☐ TPH 1005 ☐ TPH 1006 ☐		
C-602		9-23-21	0948	S	1						X	X	X	
C-603			0950								X	X	X	
C-604			0952								X	X	X	
C-605			0954								X	X	X	
C-606			0956								X	X	X	
C-607			0958								X	X	X	
C-607-2			091000								X	X	X	
C-608			1002								X	X	X	
C-609			1004								X	X	X	
C-610			1006								X	X	X	
C-611			1008								X	X	X	
C-612			1010								X	X	X	
C-613			1012								X	X	X	
C-614			1014								X	X	X	
C-615			1016								X	X	X	
TOTAL	15													

RELINQUISHED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21</u>	RECEIVED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21</u>	TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐	LABORATORY USE ONLY: RECEIVING TEMP <u>14.1</u> THERM# <u>148</u> CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED ☒ CARRIER BILL # <u> </u> ☒ HAND DELIVERED
RELINQUISHED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21</u>	RECEIVED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21</u>		
RELINQUISHED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21</u>	RECEIVED BY (Signature) <u>[Signature]</u>	DATE/TIME <u>9/24/21</u>		
LABORATORY <u>XEROX</u>					

[illegible]

No. 2106

CHAIN-OF-CUSTODY

Arson & Associates, Inc.
Environmental Consultants
507 N Warrenfield Ste 202
Midland TX 79701
432 687 0901

Date Reported to

DATE 9/24/21 PAGE 12 OF 12
PO# LAB WORK ORDER# 000-10474
PROJECT LOCATION OR NAME Palmer's Arc
LAI PROJECT # 21-0105-02 COLLECTOR TP

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State
MST / N/A

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

PRESERVATION
HCl
HNO₃
H₂SO₄ ☐ NaOH ☐
ICE
UNPRESERVED

ANALYSES

- BTEX ☒ MTBE ☐
- TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐
- GASOLINE MOD 8015 ☐
- DIESEL - MOD 8015 ☐
- OIL - MOD 8015 ☐
- VOC 8260 ☐
- SVOC 8270 ☐
- 8081 PESTICIDES ☐ PAH 8270 ☐ HOLDPAH ☐
- 8082 PESTICIDES ☐ 8151 HERBICIDES ☐
- TCLP - METALS (RCRA) ☐ TCLP VOC ☐
- TCLP - PEST ☐ HERB ☐ Semi-VOC ☐
- TOTAL METALS (RCRA) ☐ OTHER LIST ☐
- LEAD - TOTAL ☐ DW 200.8 ☐ TCLP ☐
- RCI ☐ TOX ☐ FLASHPOINT ☐
- TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐
- pH ☐ HEXAVALENT CHROMIUM ☐
- EXPLOSIVES ☐ PECTHOLATE ☐
- CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐

FIELD NOTES

TOTAL 2

RELINQUISHED BY (Signature)

DATE/TIME

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DATE/TIME

RECEIVED BY (Signature)

LABORATORY Xenico

TURN AROUND TIME
NORMAL ☒

1 DAY ☐

2 DAY ☐

OTHER ☐

LABORATORY USE ONLY.

RECEIVING TEMP

THERM#

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED

CARRIER BILL #

HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-6474-1

SDG Number: 21-0105-02

Login Number: 6474

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1324-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: PALMIO AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/5/2021 4:02:29 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Laboratory Job ID: 890-1324-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Job ID: 890-1324-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1324-1

Comments

No additional comments.

Receipt

The samples were received on 9/28/2021 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.8° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8650 and 880-8654 and analytical batch 880-8743 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-635 (890-1324-2) and C-664 (890-1324-31). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-8650 and 880-8654 and analytical batch 880-8743 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-8690 and analytical batch 880-8712 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8690 and analytical batch 880-8712 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-1321-A-1-E MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-634

Lab Sample ID: 890-1324-1

Date Collected: 09/28/21 14:00

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199	mg/Kg		09/30/21 11:34	10/02/21 11:07	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		09/30/21 11:34	10/02/21 11:07	1
Ethylbenzene	<0.00199	U F1 F2	0.00199	mg/Kg		09/30/21 11:34	10/02/21 11:07	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398	mg/Kg		09/30/21 11:34	10/02/21 11:07	1
o-Xylene	<0.00199	U F1 F2	0.00199	mg/Kg		09/30/21 11:34	10/02/21 11:07	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		09/30/21 11:34	10/02/21 11:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/30/21 11:34	10/02/21 11:07	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/30/21 11:34	10/02/21 11:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 12:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 12:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	09/29/21 13:59	09/30/21 12:25	1
o-Terphenyl	111		70 - 130	09/29/21 13:59	09/30/21 12:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		4.99	mg/Kg			10/04/21 23:57	1

Client Sample ID: C-635

Lab Sample ID: 890-1324-2

Date Collected: 09/28/21 14:01

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 11:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 11:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 11:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:34	10/02/21 11:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 11:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:34	10/02/21 11:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130	09/30/21 11:34	10/02/21 11:33	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/30/21 11:34	10/02/21 11:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-635

Lab Sample ID: 890-1324-2

Date Collected: 09/28/21 14:01

Matrix: Solid

Date Received: 09/28/21 14:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 13:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 13:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 13:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/29/21 13:59	09/30/21 13:31	1
o-Terphenyl	105		70 - 130			09/29/21 13:59	09/30/21 13:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2190		24.9	mg/Kg			10/05/21 00:04	5

Client Sample ID: C-636

Lab Sample ID: 890-1324-3

Date Collected: 09/28/21 14:02

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 11:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 11:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 11:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:34	10/02/21 11:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 11:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:34	10/02/21 11:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			09/30/21 11:34	10/02/21 11:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130			09/30/21 11:34	10/02/21 11:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 13:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 13:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-636

Lab Sample ID: 890-1324-3

Date Collected: 09/28/21 14:02

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 13:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/29/21 13:59	09/30/21 13:52	1
o-Terphenyl	105		70 - 130			09/29/21 13:59	09/30/21 13:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	758		5.00	mg/Kg			10/05/21 00:11	1

Client Sample ID: C-637

Lab Sample ID: 890-1324-4

Date Collected: 09/28/21 14:03

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 12:25	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 12:25	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 12:25	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/30/21 11:34	10/02/21 12:25	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 12:25	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/30/21 11:34	10/02/21 12:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			09/30/21 11:34	10/02/21 12:25	1
1,4-Difluorobenzene (Surr)	84		70 - 130			09/30/21 11:34	10/02/21 12:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 14:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 14:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			09/29/21 13:59	09/30/21 14:14	1
o-Terphenyl	105		70 - 130			09/29/21 13:59	09/30/21 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		5.00	mg/Kg			10/05/21 00:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-638

Lab Sample ID: 890-1324-5

Date Collected: 09/28/21 14:04

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 12:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 12:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 12:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:34	10/02/21 12:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 12:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:34	10/02/21 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	09/30/21 11:34	10/02/21 12:51	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/30/21 11:34	10/02/21 12:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 14:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 14:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	09/29/21 13:59	09/30/21 14:36	1
o-Terphenyl	115		70 - 130	09/29/21 13:59	09/30/21 14:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	652		4.98	mg/Kg			10/05/21 00:25	1

Client Sample ID: C-639

Lab Sample ID: 890-1324-6

Date Collected: 09/28/21 14:05

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 13:17	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 13:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 13:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:34	10/02/21 13:17	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 13:17	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:34	10/02/21 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/30/21 11:34	10/02/21 13:17	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/30/21 11:34	10/02/21 13:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-639

Lab Sample ID: 890-1324-6

Date Collected: 09/28/21 14:05

Matrix: Solid

Date Received: 09/28/21 14:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 14:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 14:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 14:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			09/29/21 13:59	09/30/21 14:58	1
o-Terphenyl	108		70 - 130			09/29/21 13:59	09/30/21 14:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.3		4.99	mg/Kg			10/05/21 00:32	1

Client Sample ID: C-640

Lab Sample ID: 890-1324-7

Date Collected: 09/28/21 14:06

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:34	10/02/21 13:44	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:34	10/02/21 13:44	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:34	10/02/21 13:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/30/21 11:34	10/02/21 13:44	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:34	10/02/21 13:44	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/30/21 11:34	10/02/21 13:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			09/30/21 11:34	10/02/21 13:44	1
1,4-Difluorobenzene (Surr)	104		70 - 130			09/30/21 11:34	10/02/21 13:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 15:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 15:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-640

Lab Sample ID: 890-1324-7

Date Collected: 09/28/21 14:06

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 15:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			09/29/21 13:59	09/30/21 15:20	1
o-Terphenyl	100		70 - 130			09/29/21 13:59	09/30/21 15:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	391		5.05	mg/Kg			10/05/21 00:54	1

Client Sample ID: C-641

Lab Sample ID: 890-1324-8

Date Collected: 09/28/21 14:07

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 14:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 14:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 14:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/30/21 11:34	10/02/21 14:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 14:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/30/21 11:34	10/02/21 14:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			09/30/21 11:34	10/02/21 14:10	1
1,4-Difluorobenzene (Surr)	101		70 - 130			09/30/21 11:34	10/02/21 14:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 15:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 15:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 15:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/29/21 13:59	09/30/21 15:41	1
o-Terphenyl	106		70 - 130			09/29/21 13:59	09/30/21 15:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		5.01	mg/Kg			10/05/21 01:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-642

Lab Sample ID: 890-1324-9

Date Collected: 09/28/21 14:08

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 14:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 14:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 14:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:34	10/02/21 14:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 14:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/21 11:34	10/02/21 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	09/30/21 11:34	10/02/21 14:36	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/30/21 11:34	10/02/21 14:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 16:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 16:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	09/29/21 13:59	09/30/21 16:03	1
o-Terphenyl	100		70 - 130	09/29/21 13:59	09/30/21 16:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	262		4.97	mg/Kg			10/05/21 01:23	1

Client Sample ID: C-643

Lab Sample ID: 890-1324-10

Date Collected: 09/28/21 14:09

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 15:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 15:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 15:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/30/21 11:34	10/02/21 15:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 15:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/30/21 11:34	10/02/21 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/30/21 11:34	10/02/21 15:02	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/30/21 11:34	10/02/21 15:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-643

Lab Sample ID: 890-1324-10

Date Collected: 09/28/21 14:09

Matrix: Solid

Date Received: 09/28/21 14:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 16:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 16:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 16:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			09/29/21 13:59	09/30/21 16:25	1
o-Terphenyl	106		70 - 130			09/29/21 13:59	09/30/21 16:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	304		4.95	mg/Kg			10/05/21 08:47	1

Client Sample ID: C-644

Lab Sample ID: 890-1324-11

Date Collected: 09/28/21 14:10

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 16:47	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 16:47	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 16:47	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		09/30/21 11:34	10/02/21 16:47	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 16:47	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/30/21 11:34	10/02/21 16:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			09/30/21 11:34	10/02/21 16:47	1
1,4-Difluorobenzene (Surr)	91		70 - 130			09/30/21 11:34	10/02/21 16:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 17:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 17:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-644

Lab Sample ID: 890-1324-11

Date Collected: 09/28/21 14:10

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 17:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/29/21 13:59	09/30/21 17:09	1
o-Terphenyl	106		70 - 130			09/29/21 13:59	09/30/21 17:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	520		5.04	mg/Kg			10/05/21 09:03	1

Client Sample ID: C-645

Lab Sample ID: 890-1324-12

Date Collected: 09/28/21 14:11

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 17:13	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 17:13	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 17:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:34	10/02/21 17:13	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 17:13	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/21 11:34	10/02/21 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			09/30/21 11:34	10/02/21 17:13	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/30/21 11:34	10/02/21 17:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 17:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 17:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 17:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			09/29/21 13:59	09/30/21 17:30	1
o-Terphenyl	104		70 - 130			09/29/21 13:59	09/30/21 17:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		4.95	mg/Kg			10/04/21 18:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-646

Lab Sample ID: 890-1324-13

Date Collected: 09/28/21 14:12

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 17:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 17:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 17:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:34	10/02/21 17:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 17:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:34	10/02/21 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/30/21 11:34	10/02/21 17:39	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/30/21 11:34	10/02/21 17:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 17:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 17:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 13:59	09/30/21 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	09/29/21 13:59	09/30/21 17:52	1
o-Terphenyl	104		70 - 130	09/29/21 13:59	09/30/21 17:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		5.04	mg/Kg			10/04/21 19:03	1

Client Sample ID: C-647

Lab Sample ID: 890-1324-14

Date Collected: 09/28/21 14:13

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 18:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 18:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 18:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:34	10/02/21 18:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 18:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:34	10/02/21 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/30/21 11:34	10/02/21 18:05	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/30/21 11:34	10/02/21 18:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-647

Lab Sample ID: 890-1324-14

Date Collected: 09/28/21 14:13

Matrix: Solid

Date Received: 09/28/21 14:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 18:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 18:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			09/29/21 13:59	09/30/21 18:14	1
o-Terphenyl	105		70 - 130			09/29/21 13:59	09/30/21 18:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	827		4.98	mg/Kg			10/04/21 19:10	1

Client Sample ID: C-648

Lab Sample ID: 890-1324-15

Date Collected: 09/28/21 14:14

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:34	10/02/21 18:31	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:34	10/02/21 18:31	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:34	10/02/21 18:31	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/30/21 11:34	10/02/21 18:31	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:34	10/02/21 18:31	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/30/21 11:34	10/02/21 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			09/30/21 11:34	10/02/21 18:31	1
1,4-Difluorobenzene (Surr)	107		70 - 130			09/30/21 11:34	10/02/21 18:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 18:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 18:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-648

Lab Sample ID: 890-1324-15

Date Collected: 09/28/21 14:14

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			09/29/21 13:59	09/30/21 18:35	1
o-Terphenyl	107		70 - 130			09/29/21 13:59	09/30/21 18:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3300		24.8	mg/Kg			10/04/21 19:17	5

Client Sample ID: C-649

Lab Sample ID: 890-1324-16

Date Collected: 09/28/21 14:15

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 18:58	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 18:58	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 18:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:34	10/02/21 18:58	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 18:58	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/21 11:34	10/02/21 18:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			09/30/21 11:34	10/02/21 18:58	1
1,4-Difluorobenzene (Surr)	106		70 - 130			09/30/21 11:34	10/02/21 18:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 18:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 18:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			09/29/21 13:59	09/30/21 18:57	1
o-Terphenyl	110		70 - 130			09/29/21 13:59	09/30/21 18:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	662		4.97	mg/Kg			10/04/21 19:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-650

Lab Sample ID: 890-1324-17

Date Collected: 09/28/21 14:16

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 19:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 19:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 19:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:34	10/02/21 19:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:34	10/02/21 19:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:34	10/02/21 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/30/21 11:34	10/02/21 19:24	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/30/21 11:34	10/02/21 19:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 19:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 19:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	09/29/21 13:59	09/30/21 19:19	1
o-Terphenyl	101		70 - 130	09/29/21 13:59	09/30/21 19:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	332		4.99	mg/Kg			10/04/21 19:46	1

Client Sample ID: C-651

Lab Sample ID: 890-1324-18

Date Collected: 09/28/21 14:17

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 19:50	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 19:50	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 19:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/30/21 11:34	10/02/21 19:50	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 19:50	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/30/21 11:34	10/02/21 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/30/21 11:34	10/02/21 19:50	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/30/21 11:34	10/02/21 19:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-651

Lab Sample ID: 890-1324-18

Date Collected: 09/28/21 14:17

Matrix: Solid

Date Received: 09/28/21 14:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 19:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 19:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 19:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			09/29/21 13:59	09/30/21 19:41	1
o-Terphenyl	108		70 - 130			09/29/21 13:59	09/30/21 19:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	647		4.98	mg/Kg			10/04/21 19:53	1

Client Sample ID: C-652

Lab Sample ID: 890-1324-19

Date Collected: 09/28/21 14:18

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 20:16	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 20:16	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 20:16	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		09/30/21 11:34	10/02/21 20:16	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:34	10/02/21 20:16	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/30/21 11:34	10/02/21 20:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			09/30/21 11:34	10/02/21 20:16	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/30/21 11:34	10/02/21 20:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 20:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 20:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-652

Lab Sample ID: 890-1324-19

Date Collected: 09/28/21 14:18

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/29/21 13:59	09/30/21 20:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			09/29/21 13:59	09/30/21 20:02	1
o-Terphenyl	106		70 - 130			09/29/21 13:59	09/30/21 20:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	554		5.00	mg/Kg			10/04/21 20:00	1

Client Sample ID: C-653

Lab Sample ID: 890-1324-20

Date Collected: 09/28/21 14:19

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 20:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 20:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 20:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:34	10/02/21 20:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:34	10/02/21 20:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/21 11:34	10/02/21 20:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			09/30/21 11:34	10/02/21 20:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130			09/30/21 11:34	10/02/21 20:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 20:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 20:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 20:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			09/29/21 13:59	09/30/21 20:24	1
o-Terphenyl	93		70 - 130			09/29/21 13:59	09/30/21 20:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	385		5.00	mg/Kg			10/04/21 20:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-654

Lab Sample ID: 890-1324-21

Date Collected: 09/28/21 14:20

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/01/21 16:11	10/03/21 11:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/01/21 16:11	10/03/21 11:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/01/21 16:11	10/03/21 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/01/21 16:11	10/03/21 11:14	1
o-Xylene	0.00416		0.00200	mg/Kg		10/01/21 16:11	10/03/21 11:14	1
Xylenes, Total	0.00416		0.00400	mg/Kg		10/01/21 16:11	10/03/21 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	10/01/21 16:11	10/03/21 11:14	1
1,4-Difluorobenzene (Surr)	80		70 - 130	10/01/21 16:11	10/03/21 11:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00416		0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F2	49.8	mg/Kg		09/29/21 14:16	09/30/21 12:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/29/21 14:16	09/30/21 12:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/29/21 14:16	09/30/21 12:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			09/29/21 14:16	09/30/21 12:25	1
o-Terphenyl	94		70 - 130			09/29/21 14:16	09/30/21 12:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	331		4.98	mg/Kg			10/04/21 20:15	1

Client Sample ID: C-655

Lab Sample ID: 890-1324-22

Date Collected: 09/28/21 14:21

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 01:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 01:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 01:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/30/21 11:45	10/03/21 01:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 01:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/30/21 11:45	10/03/21 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/30/21 11:45	10/03/21 01:03	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/30/21 11:45	10/03/21 01:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-655

Lab Sample ID: 890-1324-22

Date Collected: 09/28/21 14:21

Matrix: Solid

Date Received: 09/28/21 14:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 13:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 13:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 13:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			09/29/21 14:16	09/30/21 13:31	1
o-Terphenyl	121		70 - 130			09/29/21 14:16	09/30/21 13:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	512	F1	4.99	mg/Kg			10/04/21 20:22	1

Client Sample ID: C-656

Lab Sample ID: 890-1324-23

Date Collected: 09/28/21 14:22

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 01:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 01:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 01:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 01:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 01:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 01:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			09/30/21 11:45	10/03/21 01:29	1
1,4-Difluorobenzene (Surr)	96		70 - 130			09/30/21 11:45	10/03/21 01:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 13:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 13:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-656

Lab Sample ID: 890-1324-23

Date Collected: 09/28/21 14:22

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 13:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			09/29/21 14:16	09/30/21 13:52	1
o-Terphenyl	111		70 - 130			09/29/21 14:16	09/30/21 13:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.3		5.05	mg/Kg			10/04/21 20:43	1

Client Sample ID: C-657

Lab Sample ID: 890-1324-24

Date Collected: 09/28/21 14:26

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 01:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 01:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 01:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 01:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 01:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 01:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			09/30/21 11:45	10/03/21 01:55	1
1,4-Difluorobenzene (Surr)	95		70 - 130			09/30/21 11:45	10/03/21 01:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 14:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 14:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			09/29/21 14:16	09/30/21 14:14	1
o-Terphenyl	98		70 - 130			09/29/21 14:16	09/30/21 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.01	mg/Kg			10/04/21 20:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-658

Lab Sample ID: 890-1324-25

Date Collected: 09/28/21 14:24

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 02:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 02:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 02:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/30/21 11:45	10/03/21 02:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 02:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/30/21 11:45	10/03/21 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/30/21 11:45	10/03/21 02:21	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/30/21 11:45	10/03/21 02:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/29/21 14:16	09/30/21 14:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/29/21 14:16	09/30/21 14:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/29/21 14:16	09/30/21 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	09/29/21 14:16	09/30/21 14:36	1
o-Terphenyl	103		70 - 130	09/29/21 14:16	09/30/21 14:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		4.97	mg/Kg			10/04/21 21:12	1

Client Sample ID: C-659

Lab Sample ID: 890-1324-26

Date Collected: 09/28/21 14:25

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:45	10/03/21 02:47	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:45	10/03/21 02:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:45	10/03/21 02:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:45	10/03/21 02:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:45	10/03/21 02:47	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/21 11:45	10/03/21 02:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	09/30/21 11:45	10/03/21 02:47	1
1,4-Difluorobenzene (Surr)	115		70 - 130	09/30/21 11:45	10/03/21 02:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-659

Lab Sample ID: 890-1324-26

Date Collected: 09/28/21 14:25

Matrix: Solid

Date Received: 09/28/21 14:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/05/21 13:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 14:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 14:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 14:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			09/29/21 14:16	09/30/21 14:58	1
o-Terphenyl	100		70 - 130			09/29/21 14:16	09/30/21 14:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1440		24.8	mg/Kg			10/04/21 21:19	5

Client Sample ID: C-660

Lab Sample ID: 890-1324-27

Date Collected: 09/28/21 14:26

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 03:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 03:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 03:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 03:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 03:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			09/30/21 11:45	10/03/21 03:13	1
1,4-Difluorobenzene (Surr)	105		70 - 130			09/30/21 11:45	10/03/21 03:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/05/21 13:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 15:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 15:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-660

Lab Sample ID: 890-1324-27

Date Collected: 09/28/21 14:26

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 15:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			09/29/21 14:16	09/30/21 15:20	1
o-Terphenyl	102		70 - 130			09/29/21 14:16	09/30/21 15:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	287		4.98	mg/Kg			10/04/21 21:26	1

Client Sample ID: C-661

Lab Sample ID: 890-1324-28

Date Collected: 09/28/21 14:27

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:45	10/03/21 03:38	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:45	10/03/21 03:38	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:45	10/03/21 03:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/30/21 11:45	10/03/21 03:38	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:45	10/03/21 03:38	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/30/21 11:45	10/03/21 03:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			09/30/21 11:45	10/03/21 03:38	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/30/21 11:45	10/03/21 03:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 15:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 15:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 15:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			09/29/21 14:16	09/30/21 15:41	1
o-Terphenyl	98		70 - 130			09/29/21 14:16	09/30/21 15:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	596		4.95	mg/Kg			10/04/21 21:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-662

Lab Sample ID: 890-1324-29

Date Collected: 09/28/21 14:28

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 04:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 04:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 04:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 04:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 04:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	09/30/21 11:45	10/03/21 04:04	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/30/21 11:45	10/03/21 04:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 10:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/29/21 14:16	09/30/21 16:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/29/21 14:16	09/30/21 16:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/29/21 14:16	09/30/21 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	09/29/21 14:16	09/30/21 16:03	1
o-Terphenyl	94		70 - 130	09/29/21 14:16	09/30/21 16:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	558		50.4	mg/Kg			10/05/21 10:11	10

Client Sample ID: C-663

Lab Sample ID: 890-1324-30

Date Collected: 09/28/21 14:29

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 04:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 04:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 04:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:45	10/03/21 04:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 04:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:45	10/03/21 04:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/30/21 11:45	10/03/21 04:30	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/30/21 11:45	10/03/21 04:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-663

Lab Sample ID: 890-1324-30

Date Collected: 09/28/21 14:29

Matrix: Solid

Date Received: 09/28/21 14:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 10:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 16:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 16:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 16:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			09/29/21 14:16	09/30/21 16:25	1
o-Terphenyl	117		70 - 130			09/29/21 14:16	09/30/21 16:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4030		25.1	mg/Kg			10/04/21 21:48	5

Client Sample ID: C-664

Lab Sample ID: 890-1324-31

Date Collected: 09/28/21 14:30

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 06:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 06:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 06:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 06:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 06:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 06:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			09/30/21 11:45	10/03/21 06:14	1
1,4-Difluorobenzene (Surr)	103		70 - 130			09/30/21 11:45	10/03/21 06:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 10:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 17:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 17:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-664

Lab Sample ID: 890-1324-31

Date Collected: 09/28/21 14:30

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 17:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			09/29/21 14:16	09/30/21 17:09	1
o-Terphenyl	111		70 - 130			09/29/21 14:16	09/30/21 17:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2630		25.0	mg/Kg			10/04/21 21:55	5

Client Sample ID: C-665

Lab Sample ID: 890-1324-32

Date Collected: 09/28/21 14:31

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 06:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 06:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 06:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/30/21 11:45	10/03/21 06:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 06:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/30/21 11:45	10/03/21 06:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			09/30/21 11:45	10/03/21 06:41	1
1,4-Difluorobenzene (Surr)	108		70 - 130			09/30/21 11:45	10/03/21 06:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 10:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 17:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 17:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 17:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			09/29/21 14:16	09/30/21 17:30	1
o-Terphenyl	99		70 - 130			09/29/21 14:16	09/30/21 17:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.2		4.99	mg/Kg			10/03/21 21:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-666

Lab Sample ID: 890-1324-33

Date Collected: 09/28/21 14:32

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 07:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 07:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 07:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/30/21 11:45	10/03/21 07:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 07:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/30/21 11:45	10/03/21 07:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/30/21 11:45	10/03/21 07:09	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/30/21 11:45	10/03/21 07:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 10:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 17:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 17:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/29/21 14:16	09/30/21 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	09/29/21 14:16	09/30/21 17:52	1
o-Terphenyl	98		70 - 130	09/29/21 14:16	09/30/21 17:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		4.97	mg/Kg			10/03/21 21:08	1

Client Sample ID: C-667

Lab Sample ID: 890-1324-34

Date Collected: 09/28/21 14:33

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 07:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 07:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 07:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 07:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 07:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 07:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/30/21 11:45	10/03/21 07:37	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/30/21 11:45	10/03/21 07:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-667

Lab Sample ID: 890-1324-34

Date Collected: 09/28/21 14:33

Matrix: Solid

Date Received: 09/28/21 14:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 10:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/29/21 14:16	09/30/21 18:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/29/21 14:16	09/30/21 18:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/29/21 14:16	09/30/21 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			09/29/21 14:16	09/30/21 18:14	1
o-Terphenyl	101		70 - 130			09/29/21 14:16	09/30/21 18:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	284		4.95	mg/Kg			10/03/21 21:30	1

Client Sample ID: C-668

Lab Sample ID: 890-1324-35

Date Collected: 09/28/21 14:34

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 08:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 08:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 08:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 08:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:45	10/03/21 08:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:45	10/03/21 08:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			09/30/21 11:45	10/03/21 08:04	1
1,4-Difluorobenzene (Surr)	97		70 - 130			09/30/21 11:45	10/03/21 08:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 10:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 18:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 18:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-668

Lab Sample ID: 890-1324-35

Date Collected: 09/28/21 14:34

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			09/29/21 14:16	09/30/21 18:35	1
o-Terphenyl	115		70 - 130			09/29/21 14:16	09/30/21 18:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	958		4.97	mg/Kg			10/03/21 21:37	1

Client Sample ID: C-669

Lab Sample ID: 890-1324-36

Date Collected: 09/28/21 14:35

Matrix: Solid

Date Received: 09/28/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/01/21 16:11	10/03/21 16:02	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/01/21 16:11	10/03/21 16:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/01/21 16:11	10/03/21 16:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/01/21 16:11	10/03/21 16:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/01/21 16:11	10/03/21 16:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/01/21 16:11	10/03/21 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/01/21 16:11	10/03/21 16:02	1
1,4-Difluorobenzene (Surr)	75		70 - 130			10/01/21 16:11	10/03/21 16:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 18:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 18:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			09/29/21 14:16	09/30/21 18:57	1
o-Terphenyl	119		70 - 130			09/29/21 14:16	09/30/21 18:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		4.95	mg/Kg			10/03/21 21:59	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1321-A-1-D MS	Matrix Spike	123	83
890-1321-A-1-E MSD	Matrix Spike Duplicate	126	59 S1-
890-1324-1	C-634	114	92
890-1324-1 MS	C-634	74	97
890-1324-1 MSD	C-634	223 S1+	94
890-1324-2	C-635	160 S1+	85
890-1324-3	C-636	112	101
890-1324-4	C-637	89	84
890-1324-5	C-638	120	108
890-1324-6	C-639	100	89
890-1324-7	C-640	117	104
890-1324-8	C-641	102	101
890-1324-9	C-642	122	101
890-1324-10	C-643	109	98
890-1324-11	C-644	125	91
890-1324-12	C-645	119	102
890-1324-13	C-646	115	100
890-1324-14	C-647	104	94
890-1324-15	C-648	129	107
890-1324-16	C-649	119	106
890-1324-17	C-650	121	106
890-1324-18	C-651	113	101
890-1324-19	C-652	109	92
890-1324-20	C-653	114	105
890-1324-21	C-654	117	80
890-1324-21 MS	C-654	104	100
890-1324-21 MSD	C-654	99	88
890-1324-22	C-655	110	97
890-1324-23	C-656	113	96
890-1324-24	C-657	106	95
890-1324-25	C-658	102	93
890-1324-26	C-659	131 S1+	115
890-1324-27	C-660	120	105
890-1324-28	C-661	109	92
890-1324-29	C-662	125	104
890-1324-30	C-663	112	89
890-1324-31	C-664	136 S1+	103
890-1324-32	C-665	108	108
890-1324-33	C-666	100	104
890-1324-34	C-667	99	104
890-1324-35	C-668	113	97
890-1324-36	C-669	99	75
LCS 880-8650/1-A	Lab Control Sample	109	104
LCS 880-8654/1-A	Lab Control Sample	111	93
LCS 880-8690/1-A	Lab Control Sample	124	80
LCSD 880-8650/2-A	Lab Control Sample Dup	115	104
LCSD 880-8654/2-A	Lab Control Sample Dup	124	103
LCSD 880-8690/2-A	Lab Control Sample Dup	125	80
MB 880-8535/5-A	Method Blank	67 S1-	95

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1324-1

Project/Site: PALMIO AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
MB 880-8650/5-A	Method Blank	67 S1-	95
MB 880-8654/5-A	Method Blank	70	94
MB 880-8658/5-A	Method Blank	121	76
MB 880-8690/5-A	Method Blank	116	72
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1324-1	C-634	104	111
890-1324-1 MS	C-634	94	93
890-1324-1 MSD	C-634	94	90
890-1324-2	C-635	100	105
890-1324-3	C-636	100	105
890-1324-4	C-637	98	105
890-1324-5	C-638	108	115
890-1324-6	C-639	101	108
890-1324-7	C-640	95	100
890-1324-8	C-641	100	106
890-1324-9	C-642	95	100
890-1324-10	C-643	101	106
890-1324-11	C-644	100	106
890-1324-12	C-645	99	104
890-1324-13	C-646	97	104
890-1324-14	C-647	99	105
890-1324-15	C-648	99	107
890-1324-16	C-649	101	110
890-1324-17	C-650	95	101
890-1324-18	C-651	99	108
890-1324-19	C-652	98	106
890-1324-20	C-653	90	93
890-1324-21	C-654	90	94
890-1324-21 MS	C-654	106	95
890-1324-21 MSD	C-654	89	81
890-1324-22	C-655	116	121
890-1324-23	C-656	107	111
890-1324-24	C-657	96	98
890-1324-25	C-658	100	103
890-1324-26	C-659	96	100
890-1324-27	C-660	99	102
890-1324-28	C-661	94	98
890-1324-29	C-662	88	94
890-1324-30	C-663	113	117
890-1324-31	C-664	108	111
890-1324-32	C-665	94	99

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1324-1

Project/Site: PALMIO AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1324-33	C-666	95	98
890-1324-34	C-667	98	101
890-1324-35	C-668	109	115
890-1324-36	C-669	114	119
LCS 880-8593/2-A	Lab Control Sample	109	110
LCS 880-8596/2-A	Lab Control Sample	109	103
LCSD 880-8593/3-A	Lab Control Sample Dup	120	120
LCSD 880-8596/3-A	Lab Control Sample Dup	94	91
MB 880-8593/1-A	Method Blank	93	105
MB 880-8596/1-A	Method Blank	94	104

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8535/5-A

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8535

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:58	10/01/21 21:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:58	10/01/21 21:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:58	10/01/21 21:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/28/21 13:58	10/01/21 21:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:58	10/01/21 21:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:58	10/01/21 21:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	09/28/21 13:58	10/01/21 21:05	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/28/21 13:58	10/01/21 21:05	1

Lab Sample ID: MB 880-8650/5-A

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8650

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 10:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 10:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 10:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:34	10/02/21 10:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:34	10/02/21 10:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:34	10/02/21 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	09/30/21 11:34	10/02/21 10:41	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/30/21 11:34	10/02/21 10:41	1

Lab Sample ID: LCS 880-8650/1-A

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8650

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09276		mg/Kg		93	70 - 130
Toluene	0.100	0.1008		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.09678		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2102		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1078		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-8650/2-A

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8650

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07340		mg/Kg		73	70 - 130	23	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-8650/2-A

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8650

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08049		mg/Kg		80	70 - 130	22	35
Ethylbenzene	0.100	0.07717		mg/Kg		77	70 - 130	23	35
m-Xylene & p-Xylene	0.200	0.1678		mg/Kg		84	70 - 130	22	35
o-Xylene	0.100	0.08791		mg/Kg		88	70 - 130	20	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-1324-1 MS

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: C-634

Prep Type: Total/NA

Prep Batch: 8650

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1 F2	0.100	0.007733	F1	mg/Kg		8	70 - 130
Toluene	<0.00199	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.100	0.01016	F1	mg/Kg		10	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.02062	F1	mg/Kg		10	70 - 130
o-Xylene	<0.00199	U F1 F2	0.100	0.01139	F1	mg/Kg		11	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	74		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1324-1 MSD

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: C-634

Prep Type: Total/NA

Prep Batch: 8650

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.0996	<0.00199	U F1 F2	mg/Kg		1	70 - 130	147	35
Toluene	<0.00199	U F1	0.0996	<0.00199	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00199	U F1 F2	0.0996	<0.00199	U F1 F2	mg/Kg		1	70 - 130	160	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.199	0.03557	F1 F2	mg/Kg		18	70 - 130	53	35
o-Xylene	<0.00199	U F1 F2	0.0996	<0.00199	U F1 F2	mg/Kg		0.6	70 - 130	181	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	223	S1+	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-8654/5-A

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8654

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 00:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 00:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 00:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:45	10/03/21 00:12	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8654/5-A

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8654

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:45	10/03/21 00:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:45	10/03/21 00:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	09/30/21 11:45	10/03/21 00:12	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/30/21 11:45	10/03/21 00:12	1

Lab Sample ID: LCS 880-8654/1-A

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08345		mg/Kg		83	70 - 130
Toluene	0.100	0.09467		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09116		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-8654/2-A

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8654

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09421		mg/Kg		94	70 - 130	12	35
Toluene	0.100	0.1037		mg/Kg		104	70 - 130	9	35
Ethylbenzene	0.100	0.09803		mg/Kg		98	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2107		mg/Kg		105	70 - 130	7	35
o-Xylene	0.100	0.1092		mg/Kg		109	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1324-21 MS

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: C-654

Prep Type: Total/NA

Prep Batch: 8654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F2 F1	0.100	0.003905	F1	mg/Kg		4	70 - 130
Toluene	<0.00198	U F1	0.100	0.006534	F1	mg/Kg		7	70 - 130
Ethylbenzene	<0.00198	U F1	0.100	0.008906	F1	mg/Kg		9	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.201	0.01579	F1	mg/Kg		8	70 - 130
o-Xylene	<0.00198	U F1	0.100	0.01168	F1	mg/Kg		12	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1324-21 MS

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: C-654

Prep Type: Total/NA

Prep Batch: 8654

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-1324-21 MSD

Matrix: Solid

Analysis Batch: 8743

Client Sample ID: C-654

Prep Type: Total/NA

Prep Batch: 8654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F2 F1	0.0990	0.005958	F2 F1	mg/Kg		6	70 - 130	42	35
Toluene	<0.00198	U F1	0.0990	0.007302	F1	mg/Kg		7	70 - 130	11	35
Ethylbenzene	<0.00198	U F1	0.0990	0.01021	F1	mg/Kg		10	70 - 130	14	35
m-Xylene & p-Xylene	<0.00396	U F1	0.198	0.01777	F1	mg/Kg		9	70 - 130	12	35
o-Xylene	<0.00198	U F1	0.0990	0.01328	F1	mg/Kg		13	70 - 130	13	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-8658/5-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8658

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:52	10/02/21 21:17	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	121		70 - 130	09/30/21 11:52	10/02/21 21:17	1		
1,4-Difluorobenzene (Surr)	76		70 - 130	09/30/21 11:52	10/02/21 21:17	1		

Lab Sample ID: MB 880-8690/5-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8690

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/01/21 16:11	10/03/21 08:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/01/21 16:11	10/03/21 08:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/01/21 16:11	10/03/21 08:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/01/21 16:11	10/03/21 08:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/01/21 16:11	10/03/21 08:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/01/21 16:11	10/03/21 08:08	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8690/5-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8690

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	10/01/21 16:11	10/03/21 08:08	1
1,4-Difluorobenzene (Surr)	72		70 - 130	10/01/21 16:11	10/03/21 08:08	1

Lab Sample ID: LCS 880-8690/1-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08497		mg/Kg		85	70 - 130
Toluene	0.100	0.09105		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.1018		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2148		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1073		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: LCSD 880-8690/2-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8690

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09124		mg/Kg		91	70 - 130	7	35
Toluene	0.100	0.09679		mg/Kg		97	70 - 130	6	35
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2218		mg/Kg		111	70 - 130	3	35
o-Xylene	0.100	0.1116		mg/Kg		112	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: 890-1321-A-1-D MS

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8690

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.100	0.06310	F1	mg/Kg		63	70 - 130
Toluene	<0.00199	U F1	0.100	0.004470	F1	mg/Kg		4	70 - 130
Ethylbenzene	<0.00199	U F1	0.100	0.01385	F1	mg/Kg		14	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.03583	F1	mg/Kg		18	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.06813	F1	mg/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1321-A-1-E MSD

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8690

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.0992	0.03566	F2 F1	mg/Kg		36	70 - 130	56	35
Toluene	<0.00199	U F1	0.0992	0.003354	F1	mg/Kg		3	70 - 130	29	35
Ethylbenzene	<0.00199	U F1	0.0992	0.01088	F1	mg/Kg		11	70 - 130	24	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.02767	F1	mg/Kg		14	70 - 130	26	35
o-Xylene	<0.00199	U F1	0.0992	0.05152	F1	mg/Kg		52	70 - 130	28	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	59	S1-	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-8593/1-A

Matrix: Solid

Analysis Batch: 8630

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8593

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 11:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 11:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 13:59	09/30/21 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	09/29/21 13:59	09/30/21 11:20	1
o-Terphenyl	105		70 - 130	09/29/21 13:59	09/30/21 11:20	1

Lab Sample ID: LCS 880-8593/2-A

Matrix: Solid

Analysis Batch: 8630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1002		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1049		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-8593/3-A

Matrix: Solid

Analysis Batch: 8630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8593

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1129		mg/Kg		113	70 - 130	12	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8593/3-A

Matrix: Solid

Analysis Batch: 8630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8593

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	1109		mg/Kg		111	70 - 130	6	20

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
1-Chlorooctane	120		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 890-1324-1 MS

Matrix: Solid

Analysis Batch: 8630

Client Sample ID: C-634

Prep Type: Total/NA

Prep Batch: 8593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	850.6		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	827.8		mg/Kg		83	70 - 130		

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1-Chlorooctane	94		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-1324-1 MSD

Matrix: Solid

Analysis Batch: 8630

Client Sample ID: C-634

Prep Type: Total/NA

Prep Batch: 8593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	857.7		mg/Kg		84	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	824.5		mg/Kg		83	70 - 130	0	20

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1-Chlorooctane	94		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: MB 880-8596/1-A

Matrix: Solid

Analysis Batch: 8632

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8596

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 11:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 11:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/29/21 14:16	09/30/21 11:20	1

	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Surrogate						
1-Chlorooctane	94		70 - 130	09/29/21 14:16	09/30/21 11:20	1
o-Terphenyl	104		70 - 130	09/29/21 14:16	09/30/21 11:20	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-8596/2-A

Matrix: Solid

Analysis Batch: 8632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8596

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	938.9		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1048		mg/Kg		105	70 - 130		

Lab Sample ID: LCSD 880-8596/3-A

Matrix: Solid

Analysis Batch: 8632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8596

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Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	838.5		mg/Kg		84	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	922.9		mg/Kg		92	70 - 130	13	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	91		70 - 130								

Lab Sample ID: 890-1324-21 MS

Matrix: Solid

Analysis Batch: 8632

Client Sample ID: C-654

Prep Type: Total/NA

Prep Batch: 8596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F2	997	1072		mg/Kg		105	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1016		mg/Kg		102	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	106		70 - 130								
o-Terphenyl	95		70 - 130								

Lab Sample ID: 890-1324-21 MSD

Matrix: Solid

Analysis Batch: 8632

Client Sample ID: C-654

Prep Type: Total/NA

Prep Batch: 8596

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F2	999	827.1	F2	mg/Kg	-	80	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	871.2		mg/Kg		87	70 - 130	15	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	89		70 - 130								

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1324-21 MSD

Matrix: Solid

Analysis Batch: 8632

Client Sample ID: C-654

Prep Type: Total/NA

Prep Batch: 8596

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	81		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8753/1-A

Matrix: Solid

Analysis Batch: 8785

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<5.00	U	5.00	mg/Kg			10/03/21 19:07	1

Lab Sample ID: LCS 880-8753/2-A

Matrix: Solid

Analysis Batch: 8785

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				Limits
Chloride	250	250.3		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-8753/3-A

Matrix: Solid

Analysis Batch: 8785

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD
	Added	Result	Qualifier				Limits	Limit
Chloride	250	255.4		mg/Kg		102	90 - 110	20

Lab Sample ID: 890-1324-33 MS

Matrix: Solid

Analysis Batch: 8785

Client Sample ID: C-666

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Chloride	119		249	352.5		mg/Kg		94	90 - 110

Lab Sample ID: 890-1324-33 MSD

Matrix: Solid

Analysis Batch: 8785

Client Sample ID: C-666

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit
Chloride	119		249	351.7		mg/Kg		94	90 - 110	20

Lab Sample ID: MB 880-8737/1-A

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<5.00	U	5.00	mg/Kg			10/05/21 08:30	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-8737/2-A

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	263.3		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-8737/3-A

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	263.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-1324-10 MS

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: C-643

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	304		248	565.4		mg/Kg		106	90 - 110

Lab Sample ID: 890-1324-10 MSD

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: C-643

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	304		248	567.2		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-8738/1-A

Matrix: Solid

Analysis Batch: 8843

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/04/21 18:20	1

Lab Sample ID: LCS 880-8738/2-A

Matrix: Solid

Analysis Batch: 8843

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	260.3		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-8738/3-A

Matrix: Solid

Analysis Batch: 8843

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.8		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 890-1324-12 MS

Matrix: Solid

Analysis Batch: 8843

Client Sample ID: C-645

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	162		248	420.6		mg/Kg		104	90 - 110

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1324-12 MSD

Matrix: Solid

Analysis Batch: 8843

Client Sample ID: C-645

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	162		248	415.5		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-1324-22 MS

Matrix: Solid

Analysis Batch: 8843

Client Sample ID: C-655

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	512	F1	250	709.3	F1	mg/Kg		79	90 - 110		

Lab Sample ID: 890-1324-22 MSD

Matrix: Solid

Analysis Batch: 8843

Client Sample ID: C-655

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	512	F1	250	707.9	F1	mg/Kg		79	90 - 110	0	20

Lab Sample ID: MB 880-8728/1-A

Matrix: Solid

Analysis Batch: 8845

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/04/21 22:31	1

Lab Sample ID: LCS 880-8728/2-A

Matrix: Solid

Analysis Batch: 8845

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	255.8		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-8728/3-A

Matrix: Solid

Analysis Batch: 8845

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	262.0		mg/Kg		105	90 - 110	2	20

Lab Sample ID: 890-1324-6 MS

Matrix: Solid

Analysis Batch: 8845

Client Sample ID: C-639

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	98.3		250	342.4		mg/Kg		98	90 - 110		

Lab Sample ID: 890-1324-6 MSD

Matrix: Solid

Analysis Batch: 8845

Client Sample ID: C-639

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	98.3		250	345.3		mg/Kg		99	90 - 110	1	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

GC VOA

Prep Batch: 8535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8535/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-1	C-634	Total/NA	Solid	5035	
890-1324-2	C-635	Total/NA	Solid	5035	
890-1324-3	C-636	Total/NA	Solid	5035	
890-1324-4	C-637	Total/NA	Solid	5035	
890-1324-5	C-638	Total/NA	Solid	5035	
890-1324-6	C-639	Total/NA	Solid	5035	
890-1324-7	C-640	Total/NA	Solid	5035	
890-1324-8	C-641	Total/NA	Solid	5035	
890-1324-9	C-642	Total/NA	Solid	5035	
890-1324-10	C-643	Total/NA	Solid	5035	
890-1324-11	C-644	Total/NA	Solid	5035	
890-1324-12	C-645	Total/NA	Solid	5035	
890-1324-13	C-646	Total/NA	Solid	5035	
890-1324-14	C-647	Total/NA	Solid	5035	
890-1324-15	C-648	Total/NA	Solid	5035	
890-1324-16	C-649	Total/NA	Solid	5035	
890-1324-17	C-650	Total/NA	Solid	5035	
890-1324-18	C-651	Total/NA	Solid	5035	
890-1324-19	C-652	Total/NA	Solid	5035	
890-1324-20	C-653	Total/NA	Solid	5035	
MB 880-8650/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8650/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8650/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1324-1 MS	C-634	Total/NA	Solid	5035	
890-1324-1 MSD	C-634	Total/NA	Solid	5035	

Prep Batch: 8654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-22	C-655	Total/NA	Solid	5035	
890-1324-23	C-656	Total/NA	Solid	5035	
890-1324-24	C-657	Total/NA	Solid	5035	
890-1324-25	C-658	Total/NA	Solid	5035	
890-1324-26	C-659	Total/NA	Solid	5035	
890-1324-27	C-660	Total/NA	Solid	5035	
890-1324-28	C-661	Total/NA	Solid	5035	
890-1324-29	C-662	Total/NA	Solid	5035	
890-1324-30	C-663	Total/NA	Solid	5035	
890-1324-31	C-664	Total/NA	Solid	5035	
890-1324-32	C-665	Total/NA	Solid	5035	
890-1324-33	C-666	Total/NA	Solid	5035	
890-1324-34	C-667	Total/NA	Solid	5035	
890-1324-35	C-668	Total/NA	Solid	5035	
MB 880-8654/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8654/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8654/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1324-21 MS	C-654	Total/NA	Solid	5035	
890-1324-21 MSD	C-654	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

GC VOA

Prep Batch: 8658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8658/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-21	C-654	Total/NA	Solid	5035	
890-1324-36	C-669	Total/NA	Solid	5035	
MB 880-8690/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8690/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8690/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1321-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-1321-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 8712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-21	C-654	Total/NA	Solid	8021B	8690
890-1324-36	C-669	Total/NA	Solid	8021B	8690
MB 880-8658/5-A	Method Blank	Total/NA	Solid	8021B	8658
MB 880-8690/5-A	Method Blank	Total/NA	Solid	8021B	8690
LCS 880-8690/1-A	Lab Control Sample	Total/NA	Solid	8021B	8690
LCSD 880-8690/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8690
890-1321-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	8690
890-1321-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8690

Analysis Batch: 8717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-21	C-654	Total/NA	Solid	Total BTEX	
890-1324-36	C-669	Total/NA	Solid	Total BTEX	

Analysis Batch: 8743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-1	C-634	Total/NA	Solid	8021B	8650
890-1324-2	C-635	Total/NA	Solid	8021B	8650
890-1324-3	C-636	Total/NA	Solid	8021B	8650
890-1324-4	C-637	Total/NA	Solid	8021B	8650
890-1324-5	C-638	Total/NA	Solid	8021B	8650
890-1324-6	C-639	Total/NA	Solid	8021B	8650
890-1324-7	C-640	Total/NA	Solid	8021B	8650
890-1324-8	C-641	Total/NA	Solid	8021B	8650
890-1324-9	C-642	Total/NA	Solid	8021B	8650
890-1324-10	C-643	Total/NA	Solid	8021B	8650
890-1324-11	C-644	Total/NA	Solid	8021B	8650
890-1324-12	C-645	Total/NA	Solid	8021B	8650
890-1324-13	C-646	Total/NA	Solid	8021B	8650
890-1324-14	C-647	Total/NA	Solid	8021B	8650
890-1324-15	C-648	Total/NA	Solid	8021B	8650
890-1324-16	C-649	Total/NA	Solid	8021B	8650
890-1324-17	C-650	Total/NA	Solid	8021B	8650
890-1324-18	C-651	Total/NA	Solid	8021B	8650
890-1324-19	C-652	Total/NA	Solid	8021B	8650
890-1324-20	C-653	Total/NA	Solid	8021B	8650
890-1324-22	C-655	Total/NA	Solid	8021B	8654

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8743 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-23	C-656	Total/NA	Solid	8021B	8654
890-1324-24	C-657	Total/NA	Solid	8021B	8654
890-1324-25	C-658	Total/NA	Solid	8021B	8654
890-1324-26	C-659	Total/NA	Solid	8021B	8654
890-1324-27	C-660	Total/NA	Solid	8021B	8654
890-1324-28	C-661	Total/NA	Solid	8021B	8654
890-1324-29	C-662	Total/NA	Solid	8021B	8654
890-1324-30	C-663	Total/NA	Solid	8021B	8654
890-1324-31	C-664	Total/NA	Solid	8021B	8654
890-1324-32	C-665	Total/NA	Solid	8021B	8654
890-1324-33	C-666	Total/NA	Solid	8021B	8654
890-1324-34	C-667	Total/NA	Solid	8021B	8654
890-1324-35	C-668	Total/NA	Solid	8021B	8654
MB 880-8535/5-A	Method Blank	Total/NA	Solid	8021B	8535
MB 880-8650/5-A	Method Blank	Total/NA	Solid	8021B	8650
MB 880-8654/5-A	Method Blank	Total/NA	Solid	8021B	8654
LCS 880-8650/1-A	Lab Control Sample	Total/NA	Solid	8021B	8650
LCS 880-8654/1-A	Lab Control Sample	Total/NA	Solid	8021B	8654
LCSD 880-8650/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8650
LCSD 880-8654/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8654
890-1324-1 MS	C-634	Total/NA	Solid	8021B	8650
890-1324-1 MSD	C-634	Total/NA	Solid	8021B	8650
890-1324-21 MS	C-654	Total/NA	Solid	8021B	8654
890-1324-21 MSD	C-654	Total/NA	Solid	8021B	8654

Analysis Batch: 8782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-1	C-634	Total/NA	Solid	Total BTEX	
890-1324-2	C-635	Total/NA	Solid	Total BTEX	
890-1324-3	C-636	Total/NA	Solid	Total BTEX	
890-1324-4	C-637	Total/NA	Solid	Total BTEX	
890-1324-5	C-638	Total/NA	Solid	Total BTEX	
890-1324-6	C-639	Total/NA	Solid	Total BTEX	
890-1324-7	C-640	Total/NA	Solid	Total BTEX	
890-1324-8	C-641	Total/NA	Solid	Total BTEX	
890-1324-9	C-642	Total/NA	Solid	Total BTEX	
890-1324-10	C-643	Total/NA	Solid	Total BTEX	
890-1324-11	C-644	Total/NA	Solid	Total BTEX	
890-1324-12	C-645	Total/NA	Solid	Total BTEX	
890-1324-13	C-646	Total/NA	Solid	Total BTEX	
890-1324-14	C-647	Total/NA	Solid	Total BTEX	
890-1324-15	C-648	Total/NA	Solid	Total BTEX	
890-1324-16	C-649	Total/NA	Solid	Total BTEX	
890-1324-17	C-650	Total/NA	Solid	Total BTEX	
890-1324-18	C-651	Total/NA	Solid	Total BTEX	
890-1324-19	C-652	Total/NA	Solid	Total BTEX	
890-1324-20	C-653	Total/NA	Solid	Total BTEX	
890-1324-22	C-655	Total/NA	Solid	Total BTEX	
890-1324-23	C-656	Total/NA	Solid	Total BTEX	
890-1324-24	C-657	Total/NA	Solid	Total BTEX	
890-1324-25	C-658	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8782 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-28	C-661	Total/NA	Solid	Total BTEX	
890-1324-29	C-662	Total/NA	Solid	Total BTEX	
890-1324-30	C-663	Total/NA	Solid	Total BTEX	
890-1324-31	C-664	Total/NA	Solid	Total BTEX	
890-1324-32	C-665	Total/NA	Solid	Total BTEX	
890-1324-33	C-666	Total/NA	Solid	Total BTEX	
890-1324-34	C-667	Total/NA	Solid	Total BTEX	
890-1324-35	C-668	Total/NA	Solid	Total BTEX	

Analysis Batch: 8921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-26	C-659	Total/NA	Solid	Total BTEX	
890-1324-27	C-660	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 8593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-1	C-634	Total/NA	Solid	8015NM Prep	
890-1324-2	C-635	Total/NA	Solid	8015NM Prep	
890-1324-3	C-636	Total/NA	Solid	8015NM Prep	
890-1324-4	C-637	Total/NA	Solid	8015NM Prep	
890-1324-5	C-638	Total/NA	Solid	8015NM Prep	
890-1324-6	C-639	Total/NA	Solid	8015NM Prep	
890-1324-7	C-640	Total/NA	Solid	8015NM Prep	
890-1324-8	C-641	Total/NA	Solid	8015NM Prep	
890-1324-9	C-642	Total/NA	Solid	8015NM Prep	
890-1324-10	C-643	Total/NA	Solid	8015NM Prep	
890-1324-11	C-644	Total/NA	Solid	8015NM Prep	
890-1324-12	C-645	Total/NA	Solid	8015NM Prep	
890-1324-13	C-646	Total/NA	Solid	8015NM Prep	
890-1324-14	C-647	Total/NA	Solid	8015NM Prep	
890-1324-15	C-648	Total/NA	Solid	8015NM Prep	
890-1324-16	C-649	Total/NA	Solid	8015NM Prep	
890-1324-17	C-650	Total/NA	Solid	8015NM Prep	
890-1324-18	C-651	Total/NA	Solid	8015NM Prep	
890-1324-19	C-652	Total/NA	Solid	8015NM Prep	
890-1324-20	C-653	Total/NA	Solid	8015NM Prep	
MB 880-8593/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8593/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8593/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1324-1 MS	C-634	Total/NA	Solid	8015NM Prep	
890-1324-1 MSD	C-634	Total/NA	Solid	8015NM Prep	

Prep Batch: 8596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-21	C-654	Total/NA	Solid	8015NM Prep	
890-1324-22	C-655	Total/NA	Solid	8015NM Prep	
890-1324-23	C-656	Total/NA	Solid	8015NM Prep	
890-1324-24	C-657	Total/NA	Solid	8015NM Prep	
890-1324-25	C-658	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 8596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-26	C-659	Total/NA	Solid	8015NM Prep	
890-1324-27	C-660	Total/NA	Solid	8015NM Prep	
890-1324-28	C-661	Total/NA	Solid	8015NM Prep	
890-1324-29	C-662	Total/NA	Solid	8015NM Prep	
890-1324-30	C-663	Total/NA	Solid	8015NM Prep	
890-1324-31	C-664	Total/NA	Solid	8015NM Prep	
890-1324-32	C-665	Total/NA	Solid	8015NM Prep	
890-1324-33	C-666	Total/NA	Solid	8015NM Prep	
890-1324-34	C-667	Total/NA	Solid	8015NM Prep	
890-1324-35	C-668	Total/NA	Solid	8015NM Prep	
890-1324-36	C-669	Total/NA	Solid	8015NM Prep	
MB 880-8596/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8596/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8596/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1324-21 MS	C-654	Total/NA	Solid	8015NM Prep	
890-1324-21 MSD	C-654	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-1	C-634	Total/NA	Solid	8015B NM	8593
890-1324-2	C-635	Total/NA	Solid	8015B NM	8593
890-1324-3	C-636	Total/NA	Solid	8015B NM	8593
890-1324-4	C-637	Total/NA	Solid	8015B NM	8593
890-1324-5	C-638	Total/NA	Solid	8015B NM	8593
890-1324-6	C-639	Total/NA	Solid	8015B NM	8593
890-1324-7	C-640	Total/NA	Solid	8015B NM	8593
890-1324-8	C-641	Total/NA	Solid	8015B NM	8593
890-1324-9	C-642	Total/NA	Solid	8015B NM	8593
890-1324-10	C-643	Total/NA	Solid	8015B NM	8593
890-1324-11	C-644	Total/NA	Solid	8015B NM	8593
890-1324-12	C-645	Total/NA	Solid	8015B NM	8593
890-1324-13	C-646	Total/NA	Solid	8015B NM	8593
890-1324-14	C-647	Total/NA	Solid	8015B NM	8593
890-1324-15	C-648	Total/NA	Solid	8015B NM	8593
890-1324-16	C-649	Total/NA	Solid	8015B NM	8593
890-1324-17	C-650	Total/NA	Solid	8015B NM	8593
890-1324-18	C-651	Total/NA	Solid	8015B NM	8593
890-1324-19	C-652	Total/NA	Solid	8015B NM	8593
890-1324-20	C-653	Total/NA	Solid	8015B NM	8593
MB 880-8593/1-A	Method Blank	Total/NA	Solid	8015B NM	8593
LCS 880-8593/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8593
LCSD 880-8593/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8593
890-1324-1 MS	C-634	Total/NA	Solid	8015B NM	8593
890-1324-1 MSD	C-634	Total/NA	Solid	8015B NM	8593

Analysis Batch: 8632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-21	C-654	Total/NA	Solid	8015B NM	8596
890-1324-22	C-655	Total/NA	Solid	8015B NM	8596
890-1324-23	C-656	Total/NA	Solid	8015B NM	8596
890-1324-24	C-657	Total/NA	Solid	8015B NM	8596

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8632 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-25	C-658	Total/NA	Solid	8015B NM	8596
890-1324-26	C-659	Total/NA	Solid	8015B NM	8596
890-1324-27	C-660	Total/NA	Solid	8015B NM	8596
890-1324-28	C-661	Total/NA	Solid	8015B NM	8596
890-1324-29	C-662	Total/NA	Solid	8015B NM	8596
890-1324-30	C-663	Total/NA	Solid	8015B NM	8596
890-1324-31	C-664	Total/NA	Solid	8015B NM	8596
890-1324-32	C-665	Total/NA	Solid	8015B NM	8596
890-1324-33	C-666	Total/NA	Solid	8015B NM	8596
890-1324-34	C-667	Total/NA	Solid	8015B NM	8596
890-1324-35	C-668	Total/NA	Solid	8015B NM	8596
890-1324-36	C-669	Total/NA	Solid	8015B NM	8596
MB 880-8596/1-A	Method Blank	Total/NA	Solid	8015B NM	8596
LCS 880-8596/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8596
LCSD 880-8596/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8596
890-1324-21 MS	C-654	Total/NA	Solid	8015B NM	8596
890-1324-21 MSD	C-654	Total/NA	Solid	8015B NM	8596

Analysis Batch: 8793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-1	C-634	Total/NA	Solid	8015 NM	
890-1324-2	C-635	Total/NA	Solid	8015 NM	
890-1324-3	C-636	Total/NA	Solid	8015 NM	
890-1324-4	C-637	Total/NA	Solid	8015 NM	
890-1324-5	C-638	Total/NA	Solid	8015 NM	
890-1324-6	C-639	Total/NA	Solid	8015 NM	
890-1324-7	C-640	Total/NA	Solid	8015 NM	
890-1324-8	C-641	Total/NA	Solid	8015 NM	
890-1324-9	C-642	Total/NA	Solid	8015 NM	
890-1324-10	C-643	Total/NA	Solid	8015 NM	
890-1324-11	C-644	Total/NA	Solid	8015 NM	
890-1324-12	C-645	Total/NA	Solid	8015 NM	
890-1324-13	C-646	Total/NA	Solid	8015 NM	
890-1324-14	C-647	Total/NA	Solid	8015 NM	
890-1324-15	C-648	Total/NA	Solid	8015 NM	
890-1324-16	C-649	Total/NA	Solid	8015 NM	
890-1324-17	C-650	Total/NA	Solid	8015 NM	
890-1324-18	C-651	Total/NA	Solid	8015 NM	
890-1324-19	C-652	Total/NA	Solid	8015 NM	
890-1324-20	C-653	Total/NA	Solid	8015 NM	
890-1324-21	C-654	Total/NA	Solid	8015 NM	
890-1324-22	C-655	Total/NA	Solid	8015 NM	
890-1324-23	C-656	Total/NA	Solid	8015 NM	
890-1324-24	C-657	Total/NA	Solid	8015 NM	
890-1324-25	C-658	Total/NA	Solid	8015 NM	
890-1324-26	C-659	Total/NA	Solid	8015 NM	
890-1324-27	C-660	Total/NA	Solid	8015 NM	
890-1324-28	C-661	Total/NA	Solid	8015 NM	
890-1324-29	C-662	Total/NA	Solid	8015 NM	
890-1324-30	C-663	Total/NA	Solid	8015 NM	
890-1324-31	C-664	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8793 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-32	C-665	Total/NA	Solid	8015 NM	
890-1324-33	C-666	Total/NA	Solid	8015 NM	
890-1324-34	C-667	Total/NA	Solid	8015 NM	
890-1324-35	C-668	Total/NA	Solid	8015 NM	
890-1324-36	C-669	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 8728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-1	C-634	Soluble	Solid	DI Leach	
890-1324-2	C-635	Soluble	Solid	DI Leach	
890-1324-3	C-636	Soluble	Solid	DI Leach	
890-1324-4	C-637	Soluble	Solid	DI Leach	
890-1324-5	C-638	Soluble	Solid	DI Leach	
890-1324-6	C-639	Soluble	Solid	DI Leach	
890-1324-7	C-640	Soluble	Solid	DI Leach	
890-1324-8	C-641	Soluble	Solid	DI Leach	
890-1324-9	C-642	Soluble	Solid	DI Leach	
MB 880-8728/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8728/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8728/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1324-6 MS	C-639	Soluble	Solid	DI Leach	
890-1324-6 MSD	C-639	Soluble	Solid	DI Leach	

Leach Batch: 8737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-10	C-643	Soluble	Solid	DI Leach	
890-1324-11	C-644	Soluble	Solid	DI Leach	
MB 880-8737/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8737/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8737/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1324-10 MS	C-643	Soluble	Solid	DI Leach	
890-1324-10 MSD	C-643	Soluble	Solid	DI Leach	

Leach Batch: 8738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-12	C-645	Soluble	Solid	DI Leach	
890-1324-13	C-646	Soluble	Solid	DI Leach	
890-1324-14	C-647	Soluble	Solid	DI Leach	
890-1324-15	C-648	Soluble	Solid	DI Leach	
890-1324-16	C-649	Soluble	Solid	DI Leach	
890-1324-17	C-650	Soluble	Solid	DI Leach	
890-1324-18	C-651	Soluble	Solid	DI Leach	
890-1324-19	C-652	Soluble	Solid	DI Leach	
890-1324-20	C-653	Soluble	Solid	DI Leach	
890-1324-21	C-654	Soluble	Solid	DI Leach	
890-1324-22	C-655	Soluble	Solid	DI Leach	
890-1324-23	C-656	Soluble	Solid	DI Leach	
890-1324-24	C-657	Soluble	Solid	DI Leach	
890-1324-25	C-658	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-26	C-659	Soluble	Solid	DI Leach	
890-1324-27	C-660	Soluble	Solid	DI Leach	
890-1324-28	C-661	Soluble	Solid	DI Leach	
890-1324-29	C-662	Soluble	Solid	DI Leach	
890-1324-30	C-663	Soluble	Solid	DI Leach	
890-1324-31	C-664	Soluble	Solid	DI Leach	
MB 880-8738/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8738/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8738/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1324-12 MS	C-645	Soluble	Solid	DI Leach	
890-1324-12 MSD	C-645	Soluble	Solid	DI Leach	
890-1324-22 MS	C-655	Soluble	Solid	DI Leach	
890-1324-22 MSD	C-655	Soluble	Solid	DI Leach	

Leach Batch: 8753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-32	C-665	Soluble	Solid	DI Leach	
890-1324-33	C-666	Soluble	Solid	DI Leach	
890-1324-34	C-667	Soluble	Solid	DI Leach	
890-1324-35	C-668	Soluble	Solid	DI Leach	
890-1324-36	C-669	Soluble	Solid	DI Leach	
MB 880-8753/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8753/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8753/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1324-33 MS	C-666	Soluble	Solid	DI Leach	
890-1324-33 MSD	C-666	Soluble	Solid	DI Leach	

Analysis Batch: 8785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-32	C-665	Soluble	Solid	300.0	8753
890-1324-33	C-666	Soluble	Solid	300.0	8753
890-1324-34	C-667	Soluble	Solid	300.0	8753
890-1324-35	C-668	Soluble	Solid	300.0	8753
890-1324-36	C-669	Soluble	Solid	300.0	8753
MB 880-8753/1-A	Method Blank	Soluble	Solid	300.0	8753
LCS 880-8753/2-A	Lab Control Sample	Soluble	Solid	300.0	8753
LCSD 880-8753/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8753
890-1324-33 MS	C-666	Soluble	Solid	300.0	8753
890-1324-33 MSD	C-666	Soluble	Solid	300.0	8753

Analysis Batch: 8836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-10	C-643	Soluble	Solid	300.0	8737
890-1324-11	C-644	Soluble	Solid	300.0	8737
MB 880-8737/1-A	Method Blank	Soluble	Solid	300.0	8737
LCS 880-8737/2-A	Lab Control Sample	Soluble	Solid	300.0	8737
LCSD 880-8737/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8737
890-1324-10 MS	C-643	Soluble	Solid	300.0	8737
890-1324-10 MSD	C-643	Soluble	Solid	300.0	8737

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 8843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-12	C-645	Soluble	Solid	300.0	8738
890-1324-13	C-646	Soluble	Solid	300.0	8738
890-1324-14	C-647	Soluble	Solid	300.0	8738
890-1324-15	C-648	Soluble	Solid	300.0	8738
890-1324-16	C-649	Soluble	Solid	300.0	8738
890-1324-17	C-650	Soluble	Solid	300.0	8738
890-1324-18	C-651	Soluble	Solid	300.0	8738
890-1324-19	C-652	Soluble	Solid	300.0	8738
890-1324-20	C-653	Soluble	Solid	300.0	8738
890-1324-21	C-654	Soluble	Solid	300.0	8738
890-1324-22	C-655	Soluble	Solid	300.0	8738
890-1324-23	C-656	Soluble	Solid	300.0	8738
890-1324-24	C-657	Soluble	Solid	300.0	8738
890-1324-25	C-658	Soluble	Solid	300.0	8738
890-1324-26	C-659	Soluble	Solid	300.0	8738
890-1324-27	C-660	Soluble	Solid	300.0	8738
890-1324-28	C-661	Soluble	Solid	300.0	8738
890-1324-29	C-662	Soluble	Solid	300.0	8738
890-1324-30	C-663	Soluble	Solid	300.0	8738
890-1324-31	C-664	Soluble	Solid	300.0	8738
MB 880-8738/1-A	Method Blank	Soluble	Solid	300.0	8738
LCS 880-8738/2-A	Lab Control Sample	Soluble	Solid	300.0	8738
LCSD 880-8738/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8738
890-1324-12 MS	C-645	Soluble	Solid	300.0	8738
890-1324-12 MSD	C-645	Soluble	Solid	300.0	8738
890-1324-22 MS	C-655	Soluble	Solid	300.0	8738
890-1324-22 MSD	C-655	Soluble	Solid	300.0	8738

Analysis Batch: 8845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1324-1	C-634	Soluble	Solid	300.0	8728
890-1324-2	C-635	Soluble	Solid	300.0	8728
890-1324-3	C-636	Soluble	Solid	300.0	8728
890-1324-4	C-637	Soluble	Solid	300.0	8728
890-1324-5	C-638	Soluble	Solid	300.0	8728
890-1324-6	C-639	Soluble	Solid	300.0	8728
890-1324-7	C-640	Soluble	Solid	300.0	8728
890-1324-8	C-641	Soluble	Solid	300.0	8728
890-1324-9	C-642	Soluble	Solid	300.0	8728
MB 880-8728/1-A	Method Blank	Soluble	Solid	300.0	8728
LCS 880-8728/2-A	Lab Control Sample	Soluble	Solid	300.0	8728
LCSD 880-8728/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8728
890-1324-6 MS	C-639	Soluble	Solid	300.0	8728
890-1324-6 MSD	C-639	Soluble	Solid	300.0	8728

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-634

Lab Sample ID: 890-1324-1

Date Collected: 09/28/21 14:00

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 11:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 12:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8728	10/01/21 11:56	CA	XEN MID
Soluble	Analysis	300.0		1			8845	10/04/21 23:57	CH	XEN MID

Client Sample ID: C-635

Lab Sample ID: 890-1324-2

Date Collected: 09/28/21 14:01

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 11:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8728	10/01/21 11:56	CA	XEN MID
Soluble	Analysis	300.0		5			8845	10/05/21 00:04	CH	XEN MID

Client Sample ID: C-636

Lab Sample ID: 890-1324-3

Date Collected: 09/28/21 14:02

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 11:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 13:52	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8728	10/01/21 11:56	CA	XEN MID
Soluble	Analysis	300.0		1			8845	10/05/21 00:11	CH	XEN MID

Client Sample ID: C-637

Lab Sample ID: 890-1324-4

Date Collected: 09/28/21 14:03

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 12:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-637

Date Collected: 09/28/21 14:03

Date Received: 09/28/21 14:55

Lab Sample ID: 890-1324-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 14:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8728	10/01/21 11:56	CA	XEN MID
Soluble	Analysis	300.0		1			8845	10/05/21 00:18	CH	XEN MID

Client Sample ID: C-638

Date Collected: 09/28/21 14:04

Date Received: 09/28/21 14:55

Lab Sample ID: 890-1324-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 12:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 14:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8728	10/01/21 11:56	CA	XEN MID
Soluble	Analysis	300.0		1			8845	10/05/21 00:25	CH	XEN MID

Client Sample ID: C-639

Date Collected: 09/28/21 14:05

Date Received: 09/28/21 14:55

Lab Sample ID: 890-1324-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 13:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 14:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8728	10/01/21 11:56	CA	XEN MID
Soluble	Analysis	300.0		1			8845	10/05/21 00:32	CH	XEN MID

Client Sample ID: C-640

Date Collected: 09/28/21 14:06

Date Received: 09/28/21 14:55

Lab Sample ID: 890-1324-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 13:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 15:20	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-640

Lab Sample ID: 890-1324-7

Date Collected: 09/28/21 14:06

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	8728	10/01/21 11:56	CA	XEN MID
Soluble	Analysis	300.0		1			8845	10/05/21 00:54	CH	XEN MID

Client Sample ID: C-641

Lab Sample ID: 890-1324-8

Date Collected: 09/28/21 14:07

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 14:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 15:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8728	10/01/21 11:56	CA	XEN MID
Soluble	Analysis	300.0		1			8845	10/05/21 01:01	CH	XEN MID

Client Sample ID: C-642

Lab Sample ID: 890-1324-9

Date Collected: 09/28/21 14:08

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 14:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 16:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8728	10/01/21 11:56	CA	XEN MID
Soluble	Analysis	300.0		1			8845	10/05/21 01:23	CH	XEN MID

Client Sample ID: C-643

Lab Sample ID: 890-1324-10

Date Collected: 09/28/21 14:09

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 15:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 16:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 08:47	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-644

Lab Sample ID: 890-1324-11

Date Collected: 09/28/21 14:10

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 16:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 17:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 09:03	CH	XEN MID

Client Sample ID: C-645

Lab Sample ID: 890-1324-12

Date Collected: 09/28/21 14:11

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 17:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 17:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 18:41	CH	XEN MID

Client Sample ID: C-646

Lab Sample ID: 890-1324-13

Date Collected: 09/28/21 14:12

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 17:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 17:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 19:03	CH	XEN MID

Client Sample ID: C-647

Lab Sample ID: 890-1324-14

Date Collected: 09/28/21 14:13

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 18:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-647

Lab Sample ID: 890-1324-14

Date Collected: 09/28/21 14:13

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 18:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 19:10	CH	XEN MID

Client Sample ID: C-648

Lab Sample ID: 890-1324-15

Date Collected: 09/28/21 14:14

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 18:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		5			8843	10/04/21 19:17	CH	XEN MID

Client Sample ID: C-649

Lab Sample ID: 890-1324-16

Date Collected: 09/28/21 14:15

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 18:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 19:25	CH	XEN MID

Client Sample ID: C-650

Lab Sample ID: 890-1324-17

Date Collected: 09/28/21 14:16

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 19:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 19:19	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-650

Lab Sample ID: 890-1324-17

Date Collected: 09/28/21 14:16

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 19:46	CH	XEN MID

Client Sample ID: C-651

Lab Sample ID: 890-1324-18

Date Collected: 09/28/21 14:17

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 19:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 19:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 19:53	CH	XEN MID

Client Sample ID: C-652

Lab Sample ID: 890-1324-19

Date Collected: 09/28/21 14:18

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 20:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 20:02	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 20:00	CH	XEN MID

Client Sample ID: C-653

Lab Sample ID: 890-1324-20

Date Collected: 09/28/21 14:19

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8650	09/30/21 11:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/02/21 20:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8593	09/29/21 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 20:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 20:07	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-654

Lab Sample ID: 890-1324-21

Date Collected: 09/28/21 14:20

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8690	10/01/21 16:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 11:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 12:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 20:15	CH	XEN MID

Client Sample ID: C-655

Lab Sample ID: 890-1324-22

Date Collected: 09/28/21 14:21

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 01:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 20:22	CH	XEN MID

Client Sample ID: C-656

Lab Sample ID: 890-1324-23

Date Collected: 09/28/21 14:22

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 01:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 13:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 20:43	CH	XEN MID

Client Sample ID: C-657

Lab Sample ID: 890-1324-24

Date Collected: 09/28/21 14:26

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 01:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-657

Lab Sample ID: 890-1324-24

Date Collected: 09/28/21 14:26

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 14:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 20:50	CH	XEN MID

Client Sample ID: C-658

Lab Sample ID: 890-1324-25

Date Collected: 09/28/21 14:24

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 02:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 14:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 21:12	CH	XEN MID

Client Sample ID: C-659

Lab Sample ID: 890-1324-26

Date Collected: 09/28/21 14:25

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 02:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8921	10/05/21 13:24	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 14:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		5			8843	10/04/21 21:19	CH	XEN MID

Client Sample ID: C-660

Lab Sample ID: 890-1324-27

Date Collected: 09/28/21 14:26

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 03:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8921	10/05/21 13:24	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 15:20	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-660

Lab Sample ID: 890-1324-27

Date Collected: 09/28/21 14:26

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 21:26	CH	XEN MID

Client Sample ID: C-661

Lab Sample ID: 890-1324-28

Date Collected: 09/28/21 14:27

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 03:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 15:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		1			8843	10/04/21 21:33	CH	XEN MID

Client Sample ID: C-662

Lab Sample ID: 890-1324-29

Date Collected: 09/28/21 14:28

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 04:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 10:14	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 16:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		10			8843	10/05/21 10:11	CH	XEN MID

Client Sample ID: C-663

Lab Sample ID: 890-1324-30

Date Collected: 09/28/21 14:29

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 04:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 10:14	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 16:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		5			8843	10/04/21 21:48	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-664

Lab Sample ID: 890-1324-31

Date Collected: 09/28/21 14:30

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 06:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 10:14	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 17:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8738	10/01/21 12:22	CA	XEN MID
Soluble	Analysis	300.0		5			8843	10/04/21 21:55	CH	XEN MID

Client Sample ID: C-665

Lab Sample ID: 890-1324-32

Date Collected: 09/28/21 14:31

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 06:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 10:14	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 17:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8753	10/01/21 17:08	CH	XEN MID
Soluble	Analysis	300.0		1			8785	10/03/21 21:01	CH	XEN MID

Client Sample ID: C-666

Lab Sample ID: 890-1324-33

Date Collected: 09/28/21 14:32

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 07:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 10:14	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 17:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8753	10/01/21 17:08	CH	XEN MID
Soluble	Analysis	300.0		1			8785	10/03/21 21:08	CH	XEN MID

Client Sample ID: C-667

Lab Sample ID: 890-1324-34

Date Collected: 09/28/21 14:33

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 07:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 10:14	MR	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Client Sample ID: C-667

Lab Sample ID: 890-1324-34

Date Collected: 09/28/21 14:33

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 18:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8753	10/01/21 17:08	CH	XEN MID
Soluble	Analysis	300.0		1			8785	10/03/21 21:30	CH	XEN MID

Client Sample ID: C-668

Lab Sample ID: 890-1324-35

Date Collected: 09/28/21 14:34

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 08:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 10:14	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8753	10/01/21 17:08	CH	XEN MID
Soluble	Analysis	300.0		1			8785	10/03/21 21:37	CH	XEN MID

Client Sample ID: C-669

Lab Sample ID: 890-1324-36

Date Collected: 09/28/21 14:35

Matrix: Solid

Date Received: 09/28/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8690	10/01/21 16:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 16:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8596	09/29/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8753	10/01/21 17:08	CH	XEN MID
Soluble	Analysis	300.0		1			8785	10/03/21 21:59	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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Method Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1324-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1324-1	C-634	Solid	09/28/21 14:00	09/28/21 14:55
890-1324-2	C-635	Solid	09/28/21 14:01	09/28/21 14:55
890-1324-3	C-636	Solid	09/28/21 14:02	09/28/21 14:55
890-1324-4	C-637	Solid	09/28/21 14:03	09/28/21 14:55
890-1324-5	C-638	Solid	09/28/21 14:04	09/28/21 14:55
890-1324-6	C-639	Solid	09/28/21 14:05	09/28/21 14:55
890-1324-7	C-640	Solid	09/28/21 14:06	09/28/21 14:55
890-1324-8	C-641	Solid	09/28/21 14:07	09/28/21 14:55
890-1324-9	C-642	Solid	09/28/21 14:08	09/28/21 14:55
890-1324-10	C-643	Solid	09/28/21 14:09	09/28/21 14:55
890-1324-11	C-644	Solid	09/28/21 14:10	09/28/21 14:55
890-1324-12	C-645	Solid	09/28/21 14:11	09/28/21 14:55
890-1324-13	C-646	Solid	09/28/21 14:12	09/28/21 14:55
890-1324-14	C-647	Solid	09/28/21 14:13	09/28/21 14:55
890-1324-15	C-648	Solid	09/28/21 14:14	09/28/21 14:55
890-1324-16	C-649	Solid	09/28/21 14:15	09/28/21 14:55
890-1324-17	C-650	Solid	09/28/21 14:16	09/28/21 14:55
890-1324-18	C-651	Solid	09/28/21 14:17	09/28/21 14:55
890-1324-19	C-652	Solid	09/28/21 14:18	09/28/21 14:55
890-1324-20	C-653	Solid	09/28/21 14:19	09/28/21 14:55
890-1324-21	C-654	Solid	09/28/21 14:20	09/28/21 14:55
890-1324-22	C-655	Solid	09/28/21 14:21	09/28/21 14:55
890-1324-23	C-656	Solid	09/28/21 14:22	09/28/21 14:55
890-1324-24	C-657	Solid	09/28/21 14:26	09/28/21 14:55
890-1324-25	C-658	Solid	09/28/21 14:24	09/28/21 14:55
890-1324-26	C-659	Solid	09/28/21 14:25	09/28/21 14:55
890-1324-27	C-660	Solid	09/28/21 14:26	09/28/21 14:55
890-1324-28	C-661	Solid	09/28/21 14:27	09/28/21 14:55
890-1324-29	C-662	Solid	09/28/21 14:28	09/28/21 14:55
890-1324-30	C-663	Solid	09/28/21 14:29	09/28/21 14:55
890-1324-31	C-664	Solid	09/28/21 14:30	09/28/21 14:55
890-1324-32	C-665	Solid	09/28/21 14:31	09/28/21 14:55
890-1324-33	C-666	Solid	09/28/21 14:32	09/28/21 14:55
890-1324-34	C-667	Solid	09/28/21 14:33	09/28/21 14:55
890-1324-35	C-668	Solid	09/28/21 14:34	09/28/21 14:55
890-1324-36	C-669	Solid	09/28/21 14:35	09/28/21 14:55

Marson & Associates, Inc.
Environmental Consultants



890-1324 Chain of Custody

Data Reported to:

DATE: 9/28/2021 PAGE 1 OF 3
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: PAVING A ST
LAI PROJECT #: 21-0185-02 COLLECTOR: PS4

No. 2200
CHAIN-OF-CUSTODY

TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		PRESERVATION		ANALYSES		FIELD NOTES	
☐ Yes ☒ No						HCl HNO ₃ H ₂ SO ₄ ☐ NaOH ☐ ICE UNPRESERVED		BTEX & MTBE TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL - MOD 8015 ☐ OIL - MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ 8081 PESTICIDES ☐ PAH 8270 ☐ HOLDPAH ☐ 8052 PCBS ☐ TCLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ OTHER LIST ☐ LEAD - TOTAL ☐ DW 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐			
TIME ZONE Time zone/State	Field Sample I D	Lab #	Date	Time	Matrix	# of Containers					
	C-634		9/28/21	1400	S	1					
	C-635			1401							
	C-636			1402							
	C-637			1403							
	C-638			1404							
	C-639			1405							
	C-640			1406							
	C-641			1407							
	C-642			1408							
	C-643			1409							
	C-644			1410							
	C-645			1411							
	C-646			1412							
	C-647			1413							
	C-648			1414							
TOTAL						15					
RELINQUISHED BY (Signature)						DATE/TIME					
<u>PS4</u>						<u>9/28/21 1450</u>					
RELINQUISHED BY (Signature)						RECEIVED BY (Signature)					
<u>Joe Dutton</u>						<u>9/28/21 1455</u>					
RELINQUISHED BY (Signature)						RECEIVED BY (Signature)					
<u>Yanuo</u>						<u>9/28/21 1455</u>					
LABORATORY						TURN AROUND TIME					
						NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐					
LABORATORY USE ONLY:						RECEIVING TEMP: <u>90/8.8</u> THERM# <u>TRM007</u>					
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED						CARRIER BILL # _____					
☐ HAND DELIVERED											

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No. 2201

CHAIN-OF-CUSTODY

Varson & Associates, Inc.
Environmental Consultants

507 N. Marientfield, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 9/28/2021 PAGE 2 OF 3
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmdale AS
LAI PROJECT #: 21-0105-02 COLLECTOR: D54

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE

Time zone/State

MST MVM

Field Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX-MTBE

TRPH 418 T

TPH 1005

TPH 1006

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PESTICIDES

TCLP - PCBs

TCLP - METALS (RCRA)

TCLP - PEST

TOTAL METALS (RCRA)

LEAD - TOTAL

RCI

TDS

TOX

TSS

PH

EXPLOSIVES

HEXAVALENT CHROMIUM

PECHLORATE

ANIONS

ALKALINITY

FIELD NOTES

TOTAL 15

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

NORMAL ☒

RECEIVING TEMP

THERM#

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

1 DAY ☐CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

2 DAY ☐

CARRIER BILL #

LABORATORY

X4400

RECEIVED BY (Signature)

OTHER ☐

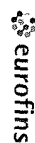
HAND DELIVERED

[illegible]

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)		Client Contact:		Lab PM		Carrier Tracking No(s)		COC No:	
Shipping/Receiving Company:		Phone:		Taylor Holly				890-433 1	
Eurofins Xenco		E-Mail		holly.taylor@eurofins.com		State of Origin		Page 1 of 4	
Address		Due Date Requested		Accreditations Required (See note)		New Mexico		Job #	
1211 W Florida Ave		10/4/2021		NELAP - Louisiana, NELAP - Texas				890-1324-1	
City		TAT Requested (days):		Analysis Requested				Preservation Codes	
Midland								A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other	
State Zip TX, 79701		PO #						M Hexane N None O AshAcO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecalydrate U Acetone V MCAA W pH 4.5 Z other (specify)	
Phone 432-704-5440(Tel)		WO #							
Email									
Project Name PALMIO AST		Project # 89000025							
Site		SSOW#							
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (IC=Comp, G=grab)		Matrix (W=water, S=solid, O=oil, A=air, B=BT-Tissue, A=Air)	
C-634 (890-1324-1)		9/28/21		14 00		Solid		Field Filtered Sample (Yes or No)	
C-635 (890-1324-2)		9/28/21		14 01		Solid		Perform MS/MSD (Yes or No)	
C-636 (890-1324-3)		9/28/21		14 02		Solid		8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	
C-637 (890-1324-4)		9/28/21		14 03		Solid		300_ORGFM_28D/DI_LEACH Chloride	
C-638 (890-1324-5)		9/28/21		14 04		Solid		8021B/5035FP_Calc (MOD) BTEX - LL	
C-639 (890-1324-6)		9/28/21		14 05		Solid			
C-640 (890-1324-7)		9/28/21		14 06		Solid			
C-641 (890-1324-8)		9/28/21		14 07		Solid			
C-642 (890-1324-9)		9/28/21		14 08		Solid			
								Total Number of containers	
								Special Instructions/Note:	

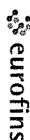
Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	IOC No							
Client Contact:				Phone	Taylor Holly		890-433 2							
Shipping/Receiving				E-Mail	taylor@eurofinet.com	State of Origin	Page: 2 of 4							
Company				Address	Accreditations Required (See note):		Job #:							
Eurofins Xenco				1211 W Florida Ave	NE LAP - Louisiana, NE LAP - Texas		890-1324-1							
City				Due Date Requested	Analysis Requested									
Midland				10/4/2021										
State Zip				TAT Requested (days):										
TX 79701														
Phone				PO #:										
432-704-5440(Tel)				WO #:										
Email:				Project #:										
PALMIO AST				89000025										
Site				SSOW#:										
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (G=grab, B=grab, A=grab)	Matrix (W=water, S=solid, O=oil, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX - LL	Total Number of containers	Special Instructions/Note.
C-643 (890-1324-10)		9/28/21	14 09	Mountain		Solid		X	X	X			1	
C-644 (890-1324-11)		9/28/21	14 10	Mountain		Solid		X	X	X			1	
C-645 (890-1324-12)		9/28/21	14 12	Mountain		Solid		X	X	X			1	
C-646 (890-1324-13)		9/28/21	14 13	Mountain		Solid		X	X	X			1	
C-647 (890-1324-14)		9/28/21	14 14	Mountain		Solid		X	X	X			1	
C-648 (890-1324-15)		9/28/21	14 15	Mountain		Solid		X	X	X			1	
C-649 (890-1324-16)		9/28/21	14 16	Mountain		Solid		X	X	X			1	
C-650 (890-1324-17)		9/28/21	14 17	Mountain		Solid		X	X	X			1	
C-651 (890-1324-18)		9/28/21	14 18	Mountain		Solid		X	X	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested I II III IV Other (Specify) Primary Deliverable Rank 2

Empty Kit Relinquished by: Date: Time: Company: Method of Shipment: Date/Time: Company:

Relinquished by: Date/Time: Company: Received by: Date/Time: Company:

Relinquished by: Date/Time: Company: Received by: Date/Time: Company:

Custody Seals Intact: Custody Seal No: Cooler Temperature(s) and Other Remarks:

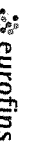
Δ Yes Δ No

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:							
Client Contact:	Phone:	Taylor Holly	State of Origin:	New Mexico	Page: 3 of 4							
Shipping/Receiving	Company:	Eurofins Xenco	Accreditations Required (See note):	NE LAP - Louisiana, NE LAP - Texas	Job #:							
Address	1211 W Florida Ave	Due Date Requested	10/4/2021	Analysis Requested	890-1324-1							
City:	Midland	TAT Requested (days):		Preservation Codes								
State Zip	TX, 79701	PO #:		A. HCL	M. Hexane							
Phone	432-704-5440 (Tel)	WO #:		B. NaOH	N. None							
Email		Project #:	89000025	C. Zn Acetate	O. AsNaO2							
Project Name:	PALMIO AST	SSOV#:		D. Nitric Acid	P. Na2O4S							
Site				E. NaHSO4	Q. Na2SO3							
				F. MeOH	R. Na2S2O3							
				G. Amchlor	S. H2SO4							
				H. Ascorbic Acid	T. TSP Dodecylate							
				I. Ice	U. Acetone							
				J. DI Water	V. MCAA							
				K. EDTA	W. pH 4.5							
				L. EDA	Z. other (specify)							
				Other:								
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab, BI=Issue Anal)	Matrix (Weir, Soil, O-waste, BI=Issue Anal)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8016NM_S_Prep (MOD) Full TPH	300_ORGFMM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX - LL	Total Number of containers	Special Instructions/Note
C-652 (890-1324-19)	9/28/21	14 19	Mountain	Solid		X	X	X	X	X	1	
C-653 (890-1324-20)	9/28/21	14 20	Mountain	Solid		X	X	X	X	X	1	
C-654 (890-1324-21)	9/28/21	14 21	Mountain	Solid		X	X	X	X	X	1	
C-655 (890-1324-22)	9/28/21	14 22	Mountain	Solid		X	X	X	X	X	1	
C-656 (890-1324-23)	9/28/21	14 23	Mountain	Solid		X	X	X	X	X	1	
C-657 (890-1324-24)	9/28/21	14 24	Mountain	Solid		X	X	X	X	X	1	
C-658 (890-1324-25)	9/28/21	14 25	Mountain	Solid		X	X	X	X	X	1	
C-659 (890-1324-26)	9/28/21	14 26	Mountain	Solid		X	X	X	X	X	1	
C-660 (890-1324-27)	9/28/21	14 27	Mountain	Solid		X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested I II III IV Other (Specify) Primary Deliverable Rank 2

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by: Date/Time: Company:

Relinquished by: Date/Time: Company:

Relinquished by: Date/Time: Company:

Custody Seals Intact: Custody Seal No

Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks

21.1°C

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

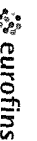
Special Instructions/QC Requirements

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No.					
Client Contact:	Phone	Taylor Holly	State of Origin:	890-433-4	Page 4 of 4					
Shipping/Receiving	E-Mail	taylor@eurofinset.com	New Mexico	Job #	890-1324-1					
Company	Address	Accreditations Required (See note)	NE LAP - Louisiana, NE LAP - Texas							
Eurofins Xenco	1211 W Florida Ave	Due Date Requested	10/4/2021							
City	Midland	TAT Requested (days):								
State, Zip	TX, 79701	PO #								
Phone	432-704-5440(Tel)	WO #								
Email		Project #	89000025							
Project Name	PALMIO AST	SSOW#								
Site										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (G=comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=bitumen, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
C-661 (890-1324-28)	9/28/21	14 28		Solid		X	X	X		
C-662 (890-1324-29)	9/28/21	14 29		Solid		X	X	X		
C-663 (890-1324-30)	9/28/21	14 30		Solid		X	X	X		
C-664 (890-1324-31)	9/28/21	14 31		Solid		X	X	X		
C-665 (890-1324-32)	9/28/21	14 32		Solid		X	X	X		
C-666 (890-1324-33)	9/28/21	14 33		Solid		X	X	X		
C-667 (890-1324-34)	9/28/21	14 34		Solid		X	X	X		
C-668 (890-1324-35)	9/28/21	14 35		Solid		X	X	X		
C-669 (890-1324-36)	9/28/21	Mountain		Solid		X	X	X		
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method and accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I, II, III, IV Other (specify)										
Primary Deliverable Rank 2										
Empty Kit Relinquished by										
Relinquished by <i>Joe Czapka 9/28/21</i>										
Relinquished by										
Relinquished by										
Custody Seals Intact: ☐ Yes ☐ No										
Custody Seal No										
Cooler Temperature(s) °C and/or other Remarks: <i>21/22/26</i>										

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1324-1

SDG Number: 21-0105-02

Login Number: 1324

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1324-1

SDG Number: 21-0105-02

Login Number: 1324**List Number: 2****Creator: Copeland, Tatiana****List Source: Eurofins Xenco, Midland****List Creation: 09/29/21 01:02 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1333-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/11/2021 9:14:36 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1333-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Job ID: 890-1333-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1333-1****Receipt**

The samples were received on 9/29/2021 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-8656 and analytical batch 880-8713 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8657 and analytical batch 880-8713 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8658 and 880-8658 and analytical batch 880-8712 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-712 (890-1333-43), C-715 (890-1333-46), C-61 3' (890-1333-48), C-72 4.1' (890-1333-49), C-83 4.1' (890-1333-50), C-162 4.1' (890-1333-51), C-200 4.1' (890-1333-52) and C-201 4.1' (890-1333-53). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-679 (890-1333-9) and C-684 (890-1333-14). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8736 and analytical batch 880-8938 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-670

Lab Sample ID: 890-1333-1

Date Collected: 09/29/21 13:30

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1 F2	0.00202	mg/Kg		09/30/21 11:47	10/02/21 22:07	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/02/21 22:07	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/02/21 22:07	1
m-Xylene & p-Xylene	<0.00404	U F1	0.00404	mg/Kg		09/30/21 11:47	10/02/21 22:07	1
o-Xylene	<0.00202	U F1	0.00202	mg/Kg		09/30/21 11:47	10/02/21 22:07	1
Xylenes, Total	<0.00404	U F1	0.00404	mg/Kg		09/30/21 11:47	10/02/21 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/30/21 11:47	10/02/21 22:07	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/30/21 11:47	10/02/21 22:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 11:37	09/30/21 22:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 11:37	09/30/21 22:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 11:37	09/30/21 22:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	09/30/21 11:37	09/30/21 22:13	1
o-Terphenyl	130		70 - 130	09/30/21 11:37	09/30/21 22:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1220		4.98	mg/Kg			10/06/21 07:31	1

Client Sample ID: C-671

Lab Sample ID: 890-1333-2

Date Collected: 09/29/21 13:31

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/02/21 22:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/02/21 22:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/02/21 22:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/30/21 11:47	10/02/21 22:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/02/21 22:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/30/21 11:47	10/02/21 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/30/21 11:47	10/02/21 22:28	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/30/21 11:47	10/02/21 22:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-671

Lab Sample ID: 890-1333-2

Date Collected: 09/29/21 13:31

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 11:37	09/30/21 23:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	09/30/21 23:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	09/30/21 23:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			09/30/21 11:37	09/30/21 23:19	1
o-Terphenyl	116		70 - 130			09/30/21 11:37	09/30/21 23:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	658		4.95	mg/Kg			10/06/21 07:39	1

Client Sample ID: C-672

Lab Sample ID: 890-1333-3

Date Collected: 09/29/21 13:32

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:47	10/02/21 22:49	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:47	10/02/21 22:49	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:47	10/02/21 22:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/30/21 11:47	10/02/21 22:49	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:47	10/02/21 22:49	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/30/21 11:47	10/02/21 22:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			09/30/21 11:47	10/02/21 22:49	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/30/21 11:47	10/02/21 22:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 11:37	09/30/21 23:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	09/30/21 23:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-672

Lab Sample ID: 890-1333-3

Date Collected: 09/29/21 13:32

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	09/30/21 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/30/21 11:37	09/30/21 23:41	1
o-Terphenyl	111		70 - 130			09/30/21 11:37	09/30/21 23:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	522		5.04	mg/Kg			10/06/21 07:46	1

Client Sample ID: C-673

Lab Sample ID: 890-1333-4

Date Collected: 09/29/21 13:33

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/02/21 23:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/02/21 23:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/02/21 23:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:47	10/02/21 23:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/02/21 23:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:47	10/02/21 23:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			09/30/21 11:47	10/02/21 23:09	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/30/21 11:47	10/02/21 23:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 00:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 00:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 00:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/30/21 11:37	10/01/21 00:02	1
o-Terphenyl	109		70 - 130			09/30/21 11:37	10/01/21 00:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	723		5.01	mg/Kg			10/06/21 07:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-674

Lab Sample ID: 890-1333-5

Date Collected: 09/29/21 13:34

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:47	10/02/21 23:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:47	10/02/21 23:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:47	10/02/21 23:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:47	10/02/21 23:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:47	10/02/21 23:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:47	10/02/21 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	09/30/21 11:47	10/02/21 23:30	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/30/21 11:47	10/02/21 23:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 00:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 00:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	09/30/21 11:37	10/01/21 00:24	1
o-Terphenyl	116		70 - 130	09/30/21 11:37	10/01/21 00:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	496		4.99	mg/Kg			10/06/21 08:00	1

Client Sample ID: C-675

Lab Sample ID: 890-1333-6

Date Collected: 09/29/21 13:45

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:47	10/02/21 23:51	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:47	10/02/21 23:51	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:47	10/02/21 23:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:47	10/02/21 23:51	1
o-Xylene	0.00223		0.00201	mg/Kg		09/30/21 11:47	10/02/21 23:51	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/21 11:47	10/02/21 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/30/21 11:47	10/02/21 23:51	1
1,4-Difluorobenzene (Surr)	110		70 - 130	09/30/21 11:47	10/02/21 23:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-675

Lab Sample ID: 890-1333-6

Date Collected: 09/29/21 13:45

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00223		0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 00:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 00:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			09/30/21 11:37	10/01/21 00:46	1
o-Terphenyl	114		70 - 130			09/30/21 11:37	10/01/21 00:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	488		4.95	mg/Kg			10/05/21 13:16	1

Client Sample ID: C-676

Lab Sample ID: 890-1333-7

Date Collected: 09/29/21 13:36

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/03/21 00:11	1
Toluene	0.00375		0.00202	mg/Kg		09/30/21 11:47	10/03/21 00:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/03/21 00:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/30/21 11:47	10/03/21 00:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/03/21 00:11	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/30/21 11:47	10/03/21 00:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			09/30/21 11:47	10/03/21 00:11	1
1,4-Difluorobenzene (Surr)	91		70 - 130			09/30/21 11:47	10/03/21 00:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00375		0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 01:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 01:08	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-676

Lab Sample ID: 890-1333-7

Date Collected: 09/29/21 13:36

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 01:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/30/21 11:37	10/01/21 01:08	1
o-Terphenyl	111		70 - 130			09/30/21 11:37	10/01/21 01:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390		5.04	mg/Kg			10/05/21 13:38	1

Client Sample ID: C-678

Lab Sample ID: 890-1333-8

Date Collected: 09/29/21 13:38

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 00:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 00:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 00:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/30/21 11:47	10/03/21 00:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 00:32	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/30/21 11:47	10/03/21 00:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			09/30/21 11:47	10/03/21 00:32	1
1,4-Difluorobenzene (Surr)	111		70 - 130			09/30/21 11:47	10/03/21 00:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 01:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 01:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 01:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			09/30/21 11:37	10/01/21 01:30	1
o-Terphenyl	112		70 - 130			09/30/21 11:37	10/01/21 01:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	559		4.98	mg/Kg			10/05/21 13:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-679

Lab Sample ID: 890-1333-9

Date Collected: 09/29/21 13:39

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/03/21 00:53	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/03/21 00:53	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/03/21 00:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/30/21 11:47	10/03/21 00:53	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/03/21 00:53	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/30/21 11:47	10/03/21 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	240	S1+	70 - 130	09/30/21 11:47	10/03/21 00:53	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/30/21 11:47	10/03/21 00:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 01:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 01:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	09/30/21 11:37	10/01/21 01:52	1
o-Terphenyl	114		70 - 130	09/30/21 11:37	10/01/21 01:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	632		4.95	mg/Kg			10/05/21 13:52	1

Client Sample ID: C-680

Lab Sample ID: 890-1333-10

Date Collected: 09/29/21 13:40

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 01:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 01:13	1
Ethylbenzene	0.00344		0.00200	mg/Kg		09/30/21 11:47	10/03/21 01:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/30/21 11:47	10/03/21 01:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 01:13	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/30/21 11:47	10/03/21 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	09/30/21 11:47	10/03/21 01:13	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/30/21 11:47	10/03/21 01:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-680

Lab Sample ID: 890-1333-10

Date Collected: 09/29/21 13:40

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00344		0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 02:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 02:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 02:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			09/30/21 11:37	10/01/21 02:13	1
o-Terphenyl	111		70 - 130			09/30/21 11:37	10/01/21 02:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.8		4.97	mg/Kg			10/05/21 13:59	1

Client Sample ID: C-681

Lab Sample ID: 890-1333-11

Date Collected: 09/29/21 13:41

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:47	10/03/21 02:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:47	10/03/21 02:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:47	10/03/21 02:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:47	10/03/21 02:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:47	10/03/21 02:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/21 11:47	10/03/21 02:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			09/30/21 11:47	10/03/21 02:36	1
1,4-Difluorobenzene (Surr)	91		70 - 130			09/30/21 11:47	10/03/21 02:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 02:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 02:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-681

Lab Sample ID: 890-1333-11

Date Collected: 09/29/21 13:41

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 02:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/30/21 11:37	10/01/21 02:58	1
o-Terphenyl	112		70 - 130			09/30/21 11:37	10/01/21 02:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		4.99	mg/Kg			10/05/21 14:21	1

Client Sample ID: C-682

Lab Sample ID: 890-1333-12

Date Collected: 09/29/21 13:42

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00230		0.00199	mg/Kg		09/30/21 11:47	10/03/21 02:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:47	10/03/21 02:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:47	10/03/21 02:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:47	10/03/21 02:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:47	10/03/21 02:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:47	10/03/21 02:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			09/30/21 11:47	10/03/21 02:56	1
1,4-Difluorobenzene (Surr)	107		70 - 130			09/30/21 11:47	10/03/21 02:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00230		0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 03:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 03:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 03:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/30/21 11:37	10/01/21 03:20	1
o-Terphenyl	109		70 - 130			09/30/21 11:37	10/01/21 03:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		4.98	mg/Kg			10/05/21 14:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-683

Lab Sample ID: 890-1333-13

Date Collected: 09/29/21 13:43

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 03:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 03:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 03:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:47	10/03/21 03:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 03:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:47	10/03/21 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/30/21 11:47	10/03/21 03:17	1
1,4-Difluorobenzene (Surr)	84		70 - 130	09/30/21 11:47	10/03/21 03:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 03:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 03:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 11:37	10/01/21 03:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	09/30/21 11:37	10/01/21 03:42	1
o-Terphenyl	111		70 - 130	09/30/21 11:37	10/01/21 03:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.6		5.00	mg/Kg			10/05/21 14:35	1

Client Sample ID: C-684

Lab Sample ID: 890-1333-14

Date Collected: 09/29/21 13:44

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 03:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 03:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 03:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:47	10/03/21 03:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 03:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:47	10/03/21 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/30/21 11:47	10/03/21 03:38	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	09/30/21 11:47	10/03/21 03:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-684

Lab Sample ID: 890-1333-14

Date Collected: 09/29/21 13:44

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 04:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 04:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 04:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			09/30/21 11:37	10/01/21 04:03	1
o-Terphenyl	114		70 - 130			09/30/21 11:37	10/01/21 04:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	304		5.00	mg/Kg			10/05/21 14:42	1

Client Sample ID: C-685

Lab Sample ID: 890-1333-15

Date Collected: 09/29/21 13:45

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:47	10/03/21 03:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:47	10/03/21 03:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:47	10/03/21 03:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:47	10/03/21 03:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:47	10/03/21 03:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:47	10/03/21 03:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			09/30/21 11:47	10/03/21 03:58	1
1,4-Difluorobenzene (Surr)	94		70 - 130			09/30/21 11:47	10/03/21 03:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 04:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 04:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-685

Lab Sample ID: 890-1333-15

Date Collected: 09/29/21 13:45

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 04:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			09/30/21 11:37	10/01/21 04:25	1
o-Terphenyl	112		70 - 130			09/30/21 11:37	10/01/21 04:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		4.98	mg/Kg			10/05/21 14:49	1

Client Sample ID: C-677

Lab Sample ID: 890-1333-16

Date Collected: 09/29/21 13:37

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/03/21 04:19	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/03/21 04:19	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/03/21 04:19	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/30/21 11:47	10/03/21 04:19	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:47	10/03/21 04:19	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/30/21 11:47	10/03/21 04:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			09/30/21 11:47	10/03/21 04:19	1
1,4-Difluorobenzene (Surr)	108		70 - 130			09/30/21 11:47	10/03/21 04:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 04:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 04:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 04:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			09/30/21 11:37	10/01/21 04:47	1
o-Terphenyl	113		70 - 130			09/30/21 11:37	10/01/21 04:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	284		4.99	mg/Kg			10/05/21 14:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-686

Lab Sample ID: 890-1333-17

Date Collected: 09/29/21 13:46

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 04:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 04:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 04:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/30/21 11:47	10/03/21 04:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 04:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/30/21 11:47	10/03/21 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/30/21 11:47	10/03/21 04:40	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/30/21 11:47	10/03/21 04:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 05:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 05:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	09/30/21 11:37	10/01/21 05:09	1
o-Terphenyl	111		70 - 130	09/30/21 11:37	10/01/21 05:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.4		5.05	mg/Kg			10/05/21 15:18	1

Client Sample ID: C-687

Lab Sample ID: 890-1333-18

Date Collected: 09/29/21 13:47

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00369		0.00201	mg/Kg		09/30/21 11:47	10/03/21 05:00	1
Toluene	0.0218		0.00201	mg/Kg		09/30/21 11:47	10/03/21 05:00	1
Ethylbenzene	0.00342		0.00201	mg/Kg		09/30/21 11:47	10/03/21 05:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:47	10/03/21 05:00	1
o-Xylene	0.00768		0.00201	mg/Kg		09/30/21 11:47	10/03/21 05:00	1
Xylenes, Total	0.00768		0.00402	mg/Kg		09/30/21 11:47	10/03/21 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/30/21 11:47	10/03/21 05:00	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/30/21 11:47	10/03/21 05:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-687

Lab Sample ID: 890-1333-18

Date Collected: 09/29/21 13:47

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0366		0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 05:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 05:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 05:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			09/30/21 11:37	10/01/21 05:31	1
o-Terphenyl	107		70 - 130			09/30/21 11:37	10/01/21 05:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.8		5.01	mg/Kg			10/05/21 15:25	1

Client Sample ID: C-688

Lab Sample ID: 890-1333-19

Date Collected: 09/29/21 13:48

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 05:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 05:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 05:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/30/21 11:47	10/03/21 05:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 05:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/30/21 11:47	10/03/21 05:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			09/30/21 11:47	10/03/21 05:21	1
1,4-Difluorobenzene (Surr)	86		70 - 130			09/30/21 11:47	10/03/21 05:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 05:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 05:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-688

Lab Sample ID: 890-1333-19

Date Collected: 09/29/21 13:48

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 11:37	10/01/21 05:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			09/30/21 11:37	10/01/21 05:54	1
o-Terphenyl	114		70 - 130			09/30/21 11:37	10/01/21 05:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.4		4.97	mg/Kg			10/05/21 15:46	1

Client Sample ID: C-689

Lab Sample ID: 890-1333-20

Date Collected: 09/29/21 13:49

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 05:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 05:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 05:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/30/21 11:47	10/03/21 05:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/03/21 05:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/30/21 11:47	10/03/21 05:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			09/30/21 11:47	10/03/21 05:42	1
1,4-Difluorobenzene (Surr)	91		70 - 130			09/30/21 11:47	10/03/21 05:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 06:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 06:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	10/01/21 06:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			09/30/21 11:37	10/01/21 06:17	1
o-Terphenyl	112		70 - 130			09/30/21 11:37	10/01/21 06:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.3		4.95	mg/Kg			10/05/21 15:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-690

Lab Sample ID: 890-1333-21

Date Collected: 09/29/21 13:50

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202	mg/Kg		09/30/21 11:50	10/03/21 09:08	1
Toluene	<0.00202	U F1	0.00202	mg/Kg		09/30/21 11:50	10/03/21 09:08	1
Ethylbenzene	<0.00202	U F1	0.00202	mg/Kg		09/30/21 11:50	10/03/21 09:08	1
m-Xylene & p-Xylene	<0.00403	U F1	0.00403	mg/Kg		09/30/21 11:50	10/03/21 09:08	1
o-Xylene	<0.00202	U F1	0.00202	mg/Kg		09/30/21 11:50	10/03/21 09:08	1
Xylenes, Total	<0.00403	U F1	0.00403	mg/Kg		09/30/21 11:50	10/03/21 09:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/30/21 11:50	10/03/21 09:08	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/30/21 11:50	10/03/21 09:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 14:32	09/30/21 22:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 14:32	09/30/21 22:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 14:32	09/30/21 22:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	09/30/21 14:32	09/30/21 22:13	1
o-Terphenyl	111		70 - 130	09/30/21 14:32	09/30/21 22:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.1		4.98	mg/Kg			10/05/21 16:01	1

Client Sample ID: C-691

Lab Sample ID: 890-1333-22

Date Collected: 09/29/21 13:51

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 09:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 09:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 09:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:50	10/03/21 09:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 09:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:50	10/03/21 09:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	09/30/21 11:50	10/03/21 09:29	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/30/21 11:50	10/03/21 09:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-691

Lab Sample ID: 890-1333-22

Date Collected: 09/29/21 13:51

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 14:32	09/30/21 23:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	09/30/21 23:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	09/30/21 23:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			09/30/21 14:32	09/30/21 23:19	1
o-Terphenyl	118		70 - 130			09/30/21 14:32	09/30/21 23:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		4.95	mg/Kg			10/05/21 16:08	1

Client Sample ID: C-692

Lab Sample ID: 890-1333-23

Date Collected: 09/29/21 13:52

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 09:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 09:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 09:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:50	10/03/21 09:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 09:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:50	10/03/21 09:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			09/30/21 11:50	10/03/21 09:49	1
1,4-Difluorobenzene (Surr)	87		70 - 130			09/30/21 11:50	10/03/21 09:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 14:32	09/30/21 23:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	09/30/21 23:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-692

Lab Sample ID: 890-1333-23

Date Collected: 09/29/21 13:52

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	09/30/21 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			09/30/21 14:32	09/30/21 23:41	1
o-Terphenyl	118		70 - 130			09/30/21 14:32	09/30/21 23:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.3		5.04	mg/Kg			10/05/21 16:15	1

Client Sample ID: C-693

Lab Sample ID: 890-1333-24

Date Collected: 09/29/21 13:53

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000182	U	0.000182	mg/Kg		09/30/21 11:50	10/03/21 10:10	1
Toluene	<0.000182	U	0.000182	mg/Kg		09/30/21 11:50	10/03/21 10:10	1
Ethylbenzene	<0.000182	U	0.000182	mg/Kg		09/30/21 11:50	10/03/21 10:10	1
m-Xylene & p-Xylene	<0.000363	U	0.000363	mg/Kg		09/30/21 11:50	10/03/21 10:10	1
o-Xylene	<0.000182	U	0.000182	mg/Kg		09/30/21 11:50	10/03/21 10:10	1
Xylenes, Total	<0.000363	U	0.000363	mg/Kg		09/30/21 11:50	10/03/21 10:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			09/30/21 11:50	10/03/21 10:10	1
1,4-Difluorobenzene (Surr)	96		70 - 130			09/30/21 11:50	10/03/21 10:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 00:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 00:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 00:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			09/30/21 14:32	10/01/21 00:02	1
o-Terphenyl	107		70 - 130			09/30/21 14:32	10/01/21 00:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.6		5.01	mg/Kg			10/05/21 16:22	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-694

Lab Sample ID: 890-1333-25

Date Collected: 09/29/21 13:54

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 10:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 10:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 10:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:50	10/03/21 10:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 10:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:50	10/03/21 10:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/30/21 11:50	10/03/21 10:31	1
1,4-Difluorobenzene (Surr)	110		70 - 130	09/30/21 11:50	10/03/21 10:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 00:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 00:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	09/30/21 14:32	10/01/21 00:24	1
o-Terphenyl	116		70 - 130	09/30/21 14:32	10/01/21 00:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	199		4.99	mg/Kg			10/05/21 16:29	1

Client Sample ID: C-695

Lab Sample ID: 890-1333-26

Date Collected: 09/29/21 13:55

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:50	10/03/21 10:52	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:50	10/03/21 10:52	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:50	10/03/21 10:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		09/30/21 11:50	10/03/21 10:52	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:50	10/03/21 10:52	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/30/21 11:50	10/03/21 10:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/30/21 11:50	10/03/21 10:52	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/30/21 11:50	10/03/21 10:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-695

Lab Sample ID: 890-1333-26

Date Collected: 09/29/21 13:55

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 00:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 00:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			09/30/21 14:32	10/01/21 00:46	1
o-Terphenyl	112		70 - 130			09/30/21 14:32	10/01/21 00:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179	F1	4.95	mg/Kg			10/05/21 13:21	1

Client Sample ID: C-696

Lab Sample ID: 890-1333-27

Date Collected: 09/29/21 13:56

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:50	10/03/21 11:13	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:50	10/03/21 11:13	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:50	10/03/21 11:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		09/30/21 11:50	10/03/21 11:13	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:50	10/03/21 11:13	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/30/21 11:50	10/03/21 11:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			09/30/21 11:50	10/03/21 11:13	1
1,4-Difluorobenzene (Surr)	93		70 - 130			09/30/21 11:50	10/03/21 11:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 01:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 01:08	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-696

Lab Sample ID: 890-1333-27

Date Collected: 09/29/21 13:56

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 01:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			09/30/21 14:32	10/01/21 01:08	1
o-Terphenyl	121		70 - 130			09/30/21 14:32	10/01/21 01:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	642		5.04	mg/Kg			10/05/21 13:40	1

Client Sample ID: C-697

Lab Sample ID: 890-1333-28

Date Collected: 09/29/21 13:57

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 11:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 11:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 11:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:50	10/03/21 11:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 11:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:50	10/03/21 11:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			09/30/21 11:50	10/03/21 11:34	1
1,4-Difluorobenzene (Surr)	112		70 - 130			09/30/21 11:50	10/03/21 11:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 01:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 01:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 01:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			09/30/21 14:32	10/01/21 01:30	1
o-Terphenyl	123		70 - 130			09/30/21 14:32	10/01/21 01:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	366		4.95	mg/Kg			10/04/21 17:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-698

Lab Sample ID: 890-1333-29

Date Collected: 09/29/21 13:58

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 11:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 11:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 11:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:50	10/03/21 11:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 11:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:50	10/03/21 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/30/21 11:50	10/03/21 11:55	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/30/21 11:50	10/03/21 11:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 01:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 01:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	09/30/21 14:32	10/01/21 01:52	1
o-Terphenyl	107		70 - 130	09/30/21 14:32	10/01/21 01:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	343		5.04	mg/Kg			10/04/21 17:54	1

Client Sample ID: C-699

Lab Sample ID: 890-1333-30

Date Collected: 09/29/21 13:59

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 12:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 12:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 12:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:50	10/03/21 12:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 12:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:50	10/03/21 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/30/21 11:50	10/03/21 12:16	1
1,4-Difluorobenzene (Surr)	115		70 - 130	09/30/21 11:50	10/03/21 12:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-699

Lab Sample ID: 890-1333-30

Date Collected: 09/29/21 13:59

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 02:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 02:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 02:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			09/30/21 14:32	10/01/21 02:13	1
o-Terphenyl	110		70 - 130			09/30/21 14:32	10/01/21 02:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	398		4.98	mg/Kg			10/04/21 18:00	1

Client Sample ID: C-700

Lab Sample ID: 890-1333-31

Date Collected: 09/29/21 14:00

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:50	10/03/21 13:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:50	10/03/21 13:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:50	10/03/21 13:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:50	10/03/21 13:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:50	10/03/21 13:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/21 11:50	10/03/21 13:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			09/30/21 11:50	10/03/21 13:43	1
1,4-Difluorobenzene (Surr)	105		70 - 130			09/30/21 11:50	10/03/21 13:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 02:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 02:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-700

Lab Sample ID: 890-1333-31

Date Collected: 09/29/21 14:00

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 02:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			09/30/21 14:32	10/01/21 02:58	1
o-Terphenyl	99		70 - 130			09/30/21 14:32	10/01/21 02:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		4.95	mg/Kg			10/04/21 18:06	1

Client Sample ID: C-701

Lab Sample ID: 890-1333-32

Date Collected: 09/29/21 14:01

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 14:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 14:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 14:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:50	10/03/21 14:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 14:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:50	10/03/21 14:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			09/30/21 11:50	10/03/21 14:04	1
1,4-Difluorobenzene (Surr)	108		70 - 130			09/30/21 11:50	10/03/21 14:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 03:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 03:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 03:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			09/30/21 14:32	10/01/21 03:20	1
o-Terphenyl	124		70 - 130			09/30/21 14:32	10/01/21 03:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	322		4.97	mg/Kg			10/04/21 18:11	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-702

Lab Sample ID: 890-1333-33

Date Collected: 09/29/21 14:02

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 14:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 14:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 14:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/30/21 11:50	10/03/21 14:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 14:24	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/30/21 11:50	10/03/21 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/30/21 11:50	10/03/21 14:24	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/30/21 11:50	10/03/21 14:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 03:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 03:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 14:32	10/01/21 03:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	09/30/21 14:32	10/01/21 03:42	1
o-Terphenyl	115		70 - 130	09/30/21 14:32	10/01/21 03:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		4.99	mg/Kg			10/04/21 18:28	1

Client Sample ID: C-703

Lab Sample ID: 890-1333-34

Date Collected: 09/29/21 14:03

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:50	10/03/21 14:45	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:50	10/03/21 14:45	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:50	10/03/21 14:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/30/21 11:50	10/03/21 14:45	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:50	10/03/21 14:45	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/30/21 11:50	10/03/21 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/30/21 11:50	10/03/21 14:45	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/30/21 11:50	10/03/21 14:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-703

Lab Sample ID: 890-1333-34

Date Collected: 09/29/21 14:03

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 04:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 04:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 04:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			09/30/21 14:32	10/01/21 04:03	1
o-Terphenyl	115		70 - 130			09/30/21 14:32	10/01/21 04:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2450		24.9	mg/Kg			10/04/21 18:34	5

Client Sample ID: C-704

Lab Sample ID: 890-1333-35

Date Collected: 09/29/21 14:04

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:50	10/03/21 15:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:50	10/03/21 15:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:50	10/03/21 15:06	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/30/21 11:50	10/03/21 15:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:50	10/03/21 15:06	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/30/21 11:50	10/03/21 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			09/30/21 11:50	10/03/21 15:06	1
1,4-Difluorobenzene (Surr)	104		70 - 130			09/30/21 11:50	10/03/21 15:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 04:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 04:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-704

Lab Sample ID: 890-1333-35

Date Collected: 09/29/21 14:04

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 04:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			09/30/21 14:32	10/01/21 04:25	1
o-Terphenyl	98		70 - 130			09/30/21 14:32	10/01/21 04:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	788		5.00	mg/Kg			10/04/21 18:39	1

Client Sample ID: C-705

Lab Sample ID: 890-1333-36

Date Collected: 09/29/21 14:05

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 15:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 15:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 15:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:50	10/03/21 15:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 15:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:50	10/03/21 15:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			09/30/21 11:50	10/03/21 15:27	1
1,4-Difluorobenzene (Surr)	113		70 - 130			09/30/21 11:50	10/03/21 15:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 04:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 04:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 04:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			09/30/21 14:32	10/01/21 04:47	1
o-Terphenyl	99		70 - 130			09/30/21 14:32	10/01/21 04:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	610		5.00	mg/Kg			10/04/21 18:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-706

Lab Sample ID: 890-1333-37

Date Collected: 09/29/21 14:06

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 15:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 15:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 15:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:50	10/03/21 15:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:50	10/03/21 15:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:50	10/03/21 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/30/21 11:50	10/03/21 15:48	1
1,4-Difluorobenzene (Surr)	110		70 - 130	09/30/21 11:50	10/03/21 15:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 05:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 05:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	09/30/21 14:32	10/01/21 05:09	1
o-Terphenyl	120		70 - 130	09/30/21 14:32	10/01/21 05:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	868		4.98	mg/Kg			10/04/21 18:51	1

Client Sample ID: C-707

Lab Sample ID: 890-1333-38

Date Collected: 09/29/21 14:07

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:50	10/03/21 16:09	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:50	10/03/21 16:09	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:50	10/03/21 16:09	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/30/21 11:50	10/03/21 16:09	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:50	10/03/21 16:09	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/30/21 11:50	10/03/21 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	09/30/21 11:50	10/03/21 16:09	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/30/21 11:50	10/03/21 16:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-707

Lab Sample ID: 890-1333-38

Date Collected: 09/29/21 14:07

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 05:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 05:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 05:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			09/30/21 14:32	10/01/21 05:31	1
o-Terphenyl	90		70 - 130			09/30/21 14:32	10/01/21 05:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		25.0	mg/Kg			10/04/21 18:56	5

Client Sample ID: C-708

Lab Sample ID: 890-1333-39

Date Collected: 09/29/21 14:08

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:50	10/03/21 16:30	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:50	10/03/21 16:30	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:50	10/03/21 16:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:50	10/03/21 16:30	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:50	10/03/21 16:30	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/21 11:50	10/03/21 16:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			09/30/21 11:50	10/03/21 16:30	1
1,4-Difluorobenzene (Surr)	111		70 - 130			09/30/21 11:50	10/03/21 16:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 05:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 05:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-708

Lab Sample ID: 890-1333-39

Date Collected: 09/29/21 14:08

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 14:32	10/01/21 05:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			09/30/21 14:32	10/01/21 05:54	1
o-Terphenyl	99		70 - 130			09/30/21 14:32	10/01/21 05:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2960		25.3	mg/Kg			10/04/21 19:13	5

Client Sample ID: C-709

Lab Sample ID: 890-1333-40

Date Collected: 09/29/21 14:09

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:50	10/03/21 16:51	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:50	10/03/21 16:51	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:50	10/03/21 16:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:50	10/03/21 16:51	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:50	10/03/21 16:51	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/21 11:50	10/03/21 16:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			09/30/21 11:50	10/03/21 16:51	1
1,4-Difluorobenzene (Surr)	113		70 - 130			09/30/21 11:50	10/03/21 16:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 06:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 06:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	10/01/21 06:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			09/30/21 14:32	10/01/21 06:17	1
o-Terphenyl	102		70 - 130			09/30/21 14:32	10/01/21 06:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3940		24.8	mg/Kg			10/03/21 13:23	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-710

Lab Sample ID: 890-1333-41

Date Collected: 09/29/21 14:10

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		09/30/21 11:52	10/02/21 21:38	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		09/30/21 11:52	10/02/21 21:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 21:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:52	10/02/21 21:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 21:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:52	10/02/21 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/30/21 11:52	10/02/21 21:38	1
1,4-Difluorobenzene (Surr)	54	S1-	70 - 130	09/30/21 11:52	10/02/21 21:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 15:58	10/01/21 21:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 15:58	10/01/21 21:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 15:58	10/01/21 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	09/30/21 15:58	10/01/21 21:04	1
o-Terphenyl	110		70 - 130	09/30/21 15:58	10/01/21 21:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6730		50.4	mg/Kg			10/03/21 14:03	10

Client Sample ID: C-711

Lab Sample ID: 890-1333-42

Date Collected: 09/29/21 14:11

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/30/21 11:52	10/02/21 21:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:59	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/30/21 11:52	10/02/21 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/30/21 11:52	10/02/21 21:59	1
1,4-Difluorobenzene (Surr)	75		70 - 130	09/30/21 11:52	10/02/21 21:59	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-711

Lab Sample ID: 890-1333-42

Date Collected: 09/29/21 14:11

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/01/21 22:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/01/21 22:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/01/21 22:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			09/30/21 15:58	10/01/21 22:08	1
o-Terphenyl	106		70 - 130			09/30/21 15:58	10/01/21 22:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3450		24.9	mg/Kg			10/03/21 14:16	5

Client Sample ID: C-712

Lab Sample ID: 890-1333-43

Date Collected: 09/29/21 14:12

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 22:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 22:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 22:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:52	10/02/21 22:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 22:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:52	10/02/21 22:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130			09/30/21 11:52	10/02/21 22:19	1
1,4-Difluorobenzene (Surr)	86		70 - 130			09/30/21 11:52	10/02/21 22:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/01/21 22:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/01/21 22:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-712

Lab Sample ID: 890-1333-43

Date Collected: 09/29/21 14:12

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/01/21 22:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			09/30/21 15:58	10/01/21 22:30	1
o-Terphenyl	116		70 - 130			09/30/21 15:58	10/01/21 22:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2700		24.8	mg/Kg			10/03/21 14:29	5

Client Sample ID: C-713

Lab Sample ID: 890-1333-44

Date Collected: 09/29/21 14:13

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 22:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 22:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 22:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:52	10/02/21 22:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 22:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:52	10/02/21 22:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/30/21 11:52	10/02/21 22:39	1
1,4-Difluorobenzene (Surr)	72		70 - 130			09/30/21 11:52	10/02/21 22:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/01/21 22:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/01/21 22:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/01/21 22:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			09/30/21 15:58	10/01/21 22:51	1
o-Terphenyl	116		70 - 130			09/30/21 15:58	10/01/21 22:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		24.9	mg/Kg			10/03/21 14:42	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-714

Lab Sample ID: 890-1333-45

Date Collected: 09/29/21 14:14

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 23:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 23:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 23:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:52	10/02/21 23:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/02/21 23:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:52	10/02/21 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	09/30/21 11:52	10/02/21 23:00	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/30/21 11:52	10/02/21 23:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 15:58	10/01/21 23:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 15:58	10/01/21 23:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 15:58	10/01/21 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	09/30/21 15:58	10/01/21 23:13	1
o-Terphenyl	103		70 - 130	09/30/21 15:58	10/01/21 23:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7950		49.9	mg/Kg			10/03/21 15:22	10

Client Sample ID: C-715

Lab Sample ID: 890-1333-46

Date Collected: 09/29/21 14:15

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 23:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 23:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 23:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/30/21 11:52	10/02/21 23:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 23:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/30/21 11:52	10/02/21 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	09/30/21 11:52	10/02/21 23:20	1
1,4-Difluorobenzene (Surr)	80		70 - 130	09/30/21 11:52	10/02/21 23:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-715

Lab Sample ID: 890-1333-46

Date Collected: 09/29/21 14:15

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/01/21 23:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/01/21 23:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/01/21 23:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			09/30/21 15:58	10/01/21 23:35	1
o-Terphenyl	108		70 - 130			09/30/21 15:58	10/01/21 23:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5020		49.8	mg/Kg			10/03/21 15:35	10

Client Sample ID: C-716

Lab Sample ID: 890-1333-47

Date Collected: 09/29/21 14:16

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 23:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 23:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 23:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:52	10/02/21 23:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 23:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:52	10/02/21 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			09/30/21 11:52	10/02/21 23:41	1
1,4-Difluorobenzene (Surr)	74		70 - 130			09/30/21 11:52	10/02/21 23:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/01/21 23:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/01/21 23:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-716

Lab Sample ID: 890-1333-47

Date Collected: 09/29/21 14:16

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/01/21 23:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			09/30/21 15:58	10/01/21 23:56	1
o-Terphenyl	100		70 - 130			09/30/21 15:58	10/01/21 23:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1790		25.0	mg/Kg			10/03/21 15:48	5

Client Sample ID: C-61 3'

Lab Sample ID: 890-1333-48

Date Collected: 09/29/21 09:00

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:52	10/03/21 00:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:52	10/03/21 00:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:52	10/03/21 00:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/30/21 11:52	10/03/21 00:01	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:52	10/03/21 00:01	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/30/21 11:52	10/03/21 00:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130			09/30/21 11:52	10/03/21 00:01	1
1,4-Difluorobenzene (Surr)	76		70 - 130			09/30/21 11:52	10/03/21 00:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/02/21 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/02/21 00:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/02/21 00:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			09/30/21 15:58	10/02/21 00:18	1
o-Terphenyl	113		70 - 130			09/30/21 15:58	10/02/21 00:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1440		5.00	mg/Kg			10/03/21 16:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-72 4.1'

Lab Sample ID: 890-1333-49

Date Collected: 09/29/21 09:50

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/03/21 00:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/03/21 00:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/03/21 00:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:52	10/03/21 00:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/03/21 00:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:52	10/03/21 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	09/30/21 11:52	10/03/21 00:21	1
1,4-Difluorobenzene (Surr)	73		70 - 130	09/30/21 11:52	10/03/21 00:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/30/21 15:58	10/02/21 00:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/30/21 15:58	10/02/21 00:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/30/21 15:58	10/02/21 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	09/30/21 15:58	10/02/21 00:39	1
o-Terphenyl	114		70 - 130	09/30/21 15:58	10/02/21 00:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1450		4.99	mg/Kg			10/03/21 16:27	1

Client Sample ID: C-83 4.1'

Lab Sample ID: 890-1333-50

Date Collected: 09/29/21 09:30

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:52	10/03/21 00:42	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:52	10/03/21 00:42	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:52	10/03/21 00:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/30/21 11:52	10/03/21 00:42	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:52	10/03/21 00:42	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/30/21 11:52	10/03/21 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	09/30/21 11:52	10/03/21 00:42	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	09/30/21 11:52	10/03/21 00:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-83 4.1'

Lab Sample ID: 890-1333-50

Date Collected: 09/29/21 09:30

Matrix: Solid

Date Received: 09/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/02/21 01:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/02/21 01:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/02/21 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/30/21 15:58	10/02/21 01:00	1
o-Terphenyl	111		70 - 130			09/30/21 15:58	10/02/21 01:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221		4.99	mg/Kg			10/03/21 17:07	1

Client Sample ID: C-162 4.1'

Lab Sample ID: 890-1333-51

Date Collected: 09/29/21 10:15

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 02:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 02:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 02:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:52	10/03/21 02:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 02:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:52	10/03/21 02:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130			09/30/21 11:52	10/03/21 02:04	1
1,4-Difluorobenzene (Surr)	76		70 - 130			09/30/21 11:52	10/03/21 02:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/02/21 01:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/02/21 01:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-162 4.1'

Lab Sample ID: 890-1333-51

Date Collected: 09/29/21 10:15

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/02/21 01:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/30/21 15:58	10/02/21 01:43	1
o-Terphenyl	109		70 - 130			09/30/21 15:58	10/02/21 01:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		5.05	mg/Kg			10/03/21 17:20	1

Client Sample ID: C-200 4.1'

Lab Sample ID: 890-1333-52

Date Collected: 09/29/21 10:45

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:52	10/03/21 02:24	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:52	10/03/21 02:24	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:52	10/03/21 02:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/30/21 11:52	10/03/21 02:24	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/30/21 11:52	10/03/21 02:24	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/30/21 11:52	10/03/21 02:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			09/30/21 11:52	10/03/21 02:24	1
1,4-Difluorobenzene (Surr)	78		70 - 130			09/30/21 11:52	10/03/21 02:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/02/21 02:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/02/21 02:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/02/21 02:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/30/21 15:58	10/02/21 02:04	1
o-Terphenyl	114		70 - 130			09/30/21 15:58	10/02/21 02:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1790		25.1	mg/Kg			10/03/21 18:00	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-201 4.1'

Lab Sample ID: 890-1333-53

Date Collected: 09/29/21 11:00

Matrix: Solid

Date Received: 09/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:52	10/03/21 02:44	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:52	10/03/21 02:44	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:52	10/03/21 02:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/30/21 11:52	10/03/21 02:44	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/30/21 11:52	10/03/21 02:44	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/30/21 11:52	10/03/21 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	172	S1+	70 - 130	09/30/21 11:52	10/03/21 02:44	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/30/21 11:52	10/03/21 02:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/05/21 10:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/02/21 02:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/02/21 02:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/21 15:58	10/02/21 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	09/30/21 15:58	10/02/21 02:26	1
o-Terphenyl	115		70 - 130	09/30/21 15:58	10/02/21 02:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1630		24.9	mg/Kg			10/03/21 18:13	5

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1333-1	C-670	101	103
890-1333-1 MS	C-670	94	71
890-1333-1 MSD	C-670	102	86
890-1333-2	C-671	102	90
890-1333-3	C-672	105	92
890-1333-4	C-673	99	92
890-1333-5	C-674	96	92
890-1333-6	C-675	113	110
890-1333-7	C-676	93	91
890-1333-8	C-678	116	111
890-1333-9	C-679	240 S1+	92
890-1333-10	C-680	89	81
890-1333-11	C-681	84	91
890-1333-12	C-682	109	107
890-1333-13	C-683	101	84
890-1333-14	C-684	115	69 S1-
890-1333-15	C-685	100	94
890-1333-16	C-677	115	108
890-1333-17	C-686	103	89
890-1333-18	C-687	112	103
890-1333-19	C-688	102	86
890-1333-20	C-689	113	91
890-1333-21	C-690	98	107
890-1333-21 MS	C-690	97	73
890-1333-21 MSD	C-690	93	88
890-1333-22	C-691	88	109
890-1333-23	C-692	112	87
890-1333-24	C-693	95	96
890-1333-25	C-694	124	110
890-1333-26	C-695	107	89
890-1333-27	C-696	85	93
890-1333-28	C-697	101	112
890-1333-29	C-698	94	89
890-1333-30	C-699	100	115
890-1333-31	C-700	128	105
890-1333-32	C-701	90	108
890-1333-33	C-702	98	106
890-1333-34	C-703	114	100
890-1333-35	C-704	85	104
890-1333-36	C-705	101	113
890-1333-37	C-706	99	110
890-1333-38	C-707	86	105
890-1333-39	C-708	99	111
890-1333-40	C-709	92	113
890-1333-41	C-710	128	54 S1-
890-1333-41 MS	C-710	120	71
890-1333-41 MSD	C-710	124	83
890-1333-42	C-711	128	75
890-1333-43	C-712	141 S1+	86

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1333-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1333-44	C-713	122	72
890-1333-45	C-714	126	76
890-1333-46	C-715	145 S1+	80
890-1333-47	C-716	130	74
890-1333-48	C-61 3'	141 S1+	76
890-1333-49	C-72 4.1'	131 S1+	73
890-1333-50	C-83 4.1'	134 S1+	67 S1-
890-1333-51	C-162 4.1'	144 S1+	76
890-1333-52	C-200 4.1'	136 S1+	78
890-1333-53	C-201 4.1'	172 S1+	94
LCS 880-8656/1-A	Lab Control Sample	90	93
LCS 880-8657/1-A	Lab Control Sample	108	81
LCS 880-8658/1-A	Lab Control Sample	116	80
LCSD 880-8656/2-A	Lab Control Sample Dup	108	87
LCSD 880-8657/2-A	Lab Control Sample Dup	99	100
LCSD 880-8658/2-A	Lab Control Sample Dup	119	79
MB 880-8533/5-A	Method Blank	113	73
MB 880-8534/5-A	Method Blank	117	90
MB 880-8656/5-A	Method Blank	113	83
MB 880-8657/5-A	Method Blank	118	103
MB 880-8658/5-A	Method Blank	121	76

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1333-1	C-670	114	130
890-1333-1 MS	C-670	101	101
890-1333-1 MSD	C-670	101	100
890-1333-2	C-671	102	116
890-1333-3	C-672	100	111
890-1333-4	C-673	100	109
890-1333-5	C-674	101	116
890-1333-6	C-675	103	114
890-1333-7	C-676	100	111
890-1333-8	C-678	101	112
890-1333-9	C-679	103	114
890-1333-10	C-680	101	111
890-1333-11	C-681	100	112
890-1333-12	C-682	100	109
890-1333-13	C-683	100	111
890-1333-14	C-684	105	114
890-1333-15	C-685	102	112
890-1333-16	C-677	105	113
890-1333-17	C-686	103	111

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1333-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-1333-18	C-687	98	107
890-1333-19	C-688	99	114
890-1333-20	C-689	102	112
890-1333-21	C-690	103	111
890-1333-21 MS	C-690	119	114
890-1333-21 MSD	C-690	99	94
890-1333-22	C-691	105	118
890-1333-23	C-692	110	118
890-1333-24	C-693	99	107
890-1333-25	C-694	107	116
890-1333-26	C-695	103	112
890-1333-27	C-696	109	121
890-1333-28	C-697	114	123
890-1333-29	C-698	99	107
890-1333-30	C-699	102	110
890-1333-31	C-700	93	99
890-1333-32	C-701	115	124
890-1333-33	C-702	110	115
890-1333-34	C-703	110	115
890-1333-35	C-704	93	98
890-1333-36	C-705	93	99
890-1333-37	C-706	112	120
890-1333-38	C-707	86	90
890-1333-39	C-708	94	99
890-1333-40	C-709	93	102
890-1333-41	C-710	101	110
890-1333-41 MS	C-710	95	95
890-1333-41 MSD	C-710	97	94
890-1333-42	C-711	96	106
890-1333-43	C-712	104	116
890-1333-44	C-713	105	116
890-1333-45	C-714	95	103
890-1333-46	C-715	97	108
890-1333-47	C-716	92	100
890-1333-48	C-61 3'	101	113
890-1333-49	C-72 4.1'	99	114
890-1333-50	C-83 4.1'	100	111
890-1333-51	C-162 4.1'	100	109
890-1333-52	C-200 4.1'	100	114
890-1333-53	C-201 4.1'	102	115
LCS 880-8651/2-A	Lab Control Sample	113	114
LCS 880-8669/2-A	Lab Control Sample	93	90
LCS 880-8689/2-A	Lab Control Sample	109	108
LCSD 880-8651/3-A	Lab Control Sample Dup	106	104
LCSD 880-8669/3-A	Lab Control Sample Dup	109	108
LCSD 880-8689/3-A	Lab Control Sample Dup	101	103
MB 880-8651/1-A	Method Blank	95	107
MB 880-8669/1-A	Method Blank	94	101
MB 880-8689/1-A	Method Blank	95	108

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8533/5-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8533

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:53	10/02/21 10:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:53	10/02/21 10:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:53	10/02/21 10:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/28/21 13:53	10/02/21 10:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:53	10/02/21 10:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:53	10/02/21 10:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/28/21 13:53	10/02/21 10:24	1
1,4-Difluorobenzene (Surr)	73		70 - 130	09/28/21 13:53	10/02/21 10:24	1

Lab Sample ID: MB 880-8534/5-A

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8534

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:56	10/02/21 10:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:56	10/02/21 10:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:56	10/02/21 10:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/28/21 13:56	10/02/21 10:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:56	10/02/21 10:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:56	10/02/21 10:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/28/21 13:56	10/02/21 10:44	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/28/21 13:56	10/02/21 10:44	1

Lab Sample ID: MB 880-8656/5-A

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8656

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/02/21 21:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/02/21 21:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/02/21 21:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:47	10/02/21 21:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:47	10/02/21 21:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:47	10/02/21 21:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/30/21 11:47	10/02/21 21:45	1
1,4-Difluorobenzene (Surr)	83		70 - 130	09/30/21 11:47	10/02/21 21:45	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8656/1-A

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07613		mg/Kg		76	70 - 130
Toluene	0.100	0.08438		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08405		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1488		mg/Kg		74	70 - 130
o-Xylene	0.100	0.07159		mg/Kg		72	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-8656/2-A

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8656

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07503		mg/Kg		75	70 - 130	1	35
Toluene	0.100	0.1046		mg/Kg		105	70 - 130	21	35
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130	22	35
m-Xylene & p-Xylene	0.200	0.1784		mg/Kg		89	70 - 130	18	35
o-Xylene	0.100	0.08978		mg/Kg		90	70 - 130	23	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-1333-1 MS

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: C-670

Prep Type: Total/NA

Prep Batch: 8656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1 F2	0.101	0.05005	F1	mg/Kg		50	70 - 130
Toluene	<0.00202	U	0.101	0.07414		mg/Kg		73	70 - 130
Ethylbenzene	<0.00202	U	0.101	0.07190		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00404	U F1	0.202	0.1296	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00202	U F1	0.101	0.06271	F1	mg/Kg		62	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	71		70 - 130

Lab Sample ID: 890-1333-1 MSD

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: C-670

Prep Type: Total/NA

Prep Batch: 8656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1 F2	0.101	0.07939	F2	mg/Kg		79	70 - 130	45	35
Toluene	<0.00202	U	0.101	0.08674		mg/Kg		86	70 - 130	16	35
Ethylbenzene	<0.00202	U	0.101	0.08751		mg/Kg		87	70 - 130	20	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1333-1 MSD

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: C-670

Prep Type: Total/NA

Prep Batch: 8656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00404	U F1	0.201	0.1556		mg/Kg		77	70 - 130	18	35
o-Xylene	<0.00202	U F1	0.101	0.07566		mg/Kg		75	70 - 130	19	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	102		70 - 130								
1,4-Difluorobenzene (Surr)	86		70 - 130								

Lab Sample ID: MB 880-8657/5-A

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8657

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 08:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 08:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 08:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:50	10/03/21 08:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:50	10/03/21 08:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:50	10/03/21 08:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			09/30/21 11:50	10/03/21 08:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130			09/30/21 11:50	10/03/21 08:46	1

Lab Sample ID: LCS 880-8657/1-A

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Benzene	0.100	0.07689		mg/Kg		77	70 - 130	
Toluene	0.100	0.09852		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.1753		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.08411		mg/Kg		84	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	108		70 - 130					
1,4-Difluorobenzene (Surr)	81		70 - 130					

Lab Sample ID: LCSD 880-8657/2-A

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8657

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07546		mg/Kg		75	70 - 130	2	35
Toluene	0.100	0.09562		mg/Kg		96	70 - 130	3	35
Ethylbenzene	0.100	0.09388		mg/Kg		94	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1626		mg/Kg		81	70 - 130	8	35
o-Xylene	0.100	0.08040		mg/Kg		80	70 - 130	5	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-1333-21 MS

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: C-690

Prep Type: Total/NA

Prep Batch: 8657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1	0.100	0.04631	F1	mg/Kg		46	70 - 130
Toluene	<0.00202	U F1	0.100	0.06746	F1	mg/Kg		67	70 - 130
Ethylbenzene	<0.00202	U F1	0.100	0.05915	F1	mg/Kg		59	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.1042	F1	mg/Kg		52	70 - 130
o-Xylene	<0.00202	U F1	0.100	0.05197	F1	mg/Kg		52	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	73		70 - 130

Lab Sample ID: 890-1333-21 MSD

Matrix: Solid

Analysis Batch: 8713

Client Sample ID: C-690

Prep Type: Total/NA

Prep Batch: 8657

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00202	U F1	0.0998	0.04752	F1	mg/Kg		48	70 - 130	3	35
Toluene	<0.00202	U F1	0.0998	0.06390	F1	mg/Kg		64	70 - 130	5	35
Ethylbenzene	<0.00202	U F1	0.0998	0.05582	F1	mg/Kg		56	70 - 130	6	35
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.09876	F1	mg/Kg		49	70 - 130	5	35
o-Xylene	<0.00202	U F1	0.0998	0.05070	F1	mg/Kg		51	70 - 130	2	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-8658/5-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8658

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:52	10/02/21 21:17	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	121		70 - 130	09/30/21 11:52	10/02/21 21:17	1		
1,4-Difluorobenzene (Surr)	76		70 - 130	09/30/21 11:52	10/02/21 21:17	1		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8658/1-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08700		mg/Kg		87	70 - 130
Toluene	0.100	0.09298		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09750		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2025		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1015		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: LCSD 880-8658/2-A

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8658

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08720		mg/Kg		87	70 - 130	0	35
Toluene	0.100	0.09169		mg/Kg		92	70 - 130	1	35
Ethylbenzene	0.100	0.09643		mg/Kg		96	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2013		mg/Kg		101	70 - 130	1	35
o-Xylene	0.100	0.1018		mg/Kg		102	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 890-1333-41 MS

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: C-710

Prep Type: Total/NA

Prep Batch: 8658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.06627	F1	mg/Kg		66	70 - 130
Toluene	<0.00199	U F1	0.100	0.07156		mg/Kg		71	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.07319		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1519		mg/Kg		76	70 - 130
o-Xylene	<0.00199	U	0.100	0.07476		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	71		70 - 130

Lab Sample ID: 890-1333-41 MSD

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: C-710

Prep Type: Total/NA

Prep Batch: 8658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.06653	F1	mg/Kg		66	70 - 130	0	35
Toluene	<0.00199	U F1	0.101	0.06790	F1	mg/Kg		67	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.101	0.07041		mg/Kg		70	70 - 130	4	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1333-41 MSD

Matrix: Solid

Analysis Batch: 8712

Client Sample ID: C-710

Prep Type: Total/NA

Prep Batch: 8658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1461		mg/Kg		72	70 - 130	4	35
o-Xylene	<0.00199	U	0.101	0.07217		mg/Kg		72	70 - 130	4	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	124		70 - 130								
1,4-Difluorobenzene (Surr)	83		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-8651/1-A

Matrix: Solid

Analysis Batch: 8630

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8651

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 11:37	09/30/21 21:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	09/30/21 21:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 11:37	09/30/21 21:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			09/30/21 11:37	09/30/21 21:08	1
o-Terphenyl	107		70 - 130			09/30/21 11:37	09/30/21 21:08	1

Lab Sample ID: LCS 880-8651/2-A

Matrix: Solid

Analysis Batch: 8630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1030		mg/Kg		103	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1047		mg/Kg		105	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane	113		70 - 130					
o-Terphenyl	114		70 - 130					

Lab Sample ID: LCSD 880-8651/3-A

Matrix: Solid

Analysis Batch: 8630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8651

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	931.4		mg/Kg		93	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	1007		mg/Kg		101	70 - 130	4	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8651/3-A

Matrix: Solid

Analysis Batch: 8630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8651

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-1333-1 MS

Matrix: Solid

Analysis Batch: 8630

Client Sample ID: C-670

Prep Type: Total/NA

Prep Batch: 8651

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	906.7		mg/Kg		91	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	997	859.0		mg/Kg		86	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	101		70 - 130							
o-Terphenyl	101		70 - 130							

Lab Sample ID: 890-1333-1 MSD

Matrix: Solid

Analysis Batch: 8630

Client Sample ID: C-670

Prep Type: Total/NA

Prep Batch: 8651

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	1074		mg/Kg		108	70 - 130	17	20	
Diesel Range Organics (Over C10-C28)	<49.8	U	999	871.1		mg/Kg		87	70 - 130	1	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	101		70 - 130									
o-Terphenyl	100		70 - 130									

Lab Sample ID: MB 880-8669/1-A

Matrix: Solid

Analysis Batch: 8632

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8669

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 14:32	09/30/21 21:08	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	09/30/21 21:08	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 14:32	09/30/21 21:08	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
1-Chlorooctane	94		70 - 130			09/30/21 14:32	09/30/21 21:08	1		
o-Terphenyl	101		70 - 130			09/30/21 14:32	09/30/21 21:08	1		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-8669/2-A

Matrix: Solid

Analysis Batch: 8632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8669

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	822.2		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	874.6		mg/Kg		87	70 - 130		
Surrogate	LCS		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	93		70 - 130								
o-Terphenyl	90		70 - 130								

Lab Sample ID: LCSD 880-8669/3-A

Matrix: Solid

Analysis Batch: 8632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8669

Top Data: 2000											
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier			Limits	Limit		
Gasoline Range Organics (GRO)-C6-C10			1000	954.4		mg/Kg		95	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	1069		mg/Kg		107	70 - 130	20	20
Bottom Data: 2000											
Surrogate	LCSD		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	109		70 - 130								
o-Terphenyl	108		70 - 130								

Lab Sample ID: 890-1333-21 MS

Matrix: Solid

Analysis Batch: 8632

Client Sample ID: C-690

Prep Type: Total/NA

Prep Batch: 8669

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	1057		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1127		mg/Kg		111	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	119		70 - 130								
o-Terphenyl	114		70 - 130								

Lab Sample ID: 890-1333-21 MSD

Matrix: Solid

Analysis Batch: 8632

Client Sample ID: C-690

Prep Type: Total/NA

Prep Batch: 8669

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	887.8		mg/Kg		87	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	939.0		mg/Kg		92	70 - 130	18	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	99		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1333-21 MSD

Matrix: Solid

Analysis Batch: 8632

Client Sample ID: C-690

Prep Type: Total/NA

Prep Batch: 8669

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	94		70 - 130

Lab Sample ID: MB 880-8689/1-A

Matrix: Solid

Analysis Batch: 8701

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8689

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/01/21 20:00	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/01/21 20:00	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/01/21 20:00	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1-Chlorooctane	95		70 - 130			09/30/21 15:58	10/01/21 20:00	1	
<i>o</i> -Terphenyl	108		70 - 130			09/30/21 15:58	10/01/21 20:00	1	

Lab Sample ID: LCS 880-8689/2-A

Matrix: Solid

Analysis Batch: 8701

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8689

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10		1000	859.2		mg/Kg		86	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	978.1		mg/Kg		98	70 - 130	
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
<i>o</i> -Terphenyl	108		70 - 130						

Lab Sample ID: LCSD 880-8689/3-A

Matrix: Solid

Analysis Batch: 8701

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8689

		Spike	LCSD	LCSD				%Rec.		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10		1000	995.5		mg/Kg		100	70 - 130	15	20	
Diesel Range Organics (Over C10-C28)		1000	979.4		mg/Kg		98	70 - 130	0	20	
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
<i>o</i> -Terphenyl	103		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1333-41 MS

Matrix: Solid

Analysis Batch: 8701

Client Sample ID: C-710

Prep Type: Total/NA

Prep Batch: 8689

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	865.5		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	857.7		mg/Kg		86	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	95		70 - 130						
o-Terphenyl	95		70 - 130						

Lab Sample ID: 890-1333-41 MSD

Matrix: Solid

Analysis Batch: 8701

Client Sample ID: C-710

Prep Type: Total/NA

Prep Batch: 8689

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	826.4		mg/Kg		83	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	849.1		mg/Kg		85	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	94		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8726/1-A

Matrix: Solid

Analysis Batch: 8783

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/03/21 12:44	1

Lab Sample ID: LCS 880-8726/2-A

Matrix: Solid

Analysis Batch: 8783

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.4		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-8726/3-A

Matrix: Solid

Analysis Batch: 8783

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.4		mg/Kg		99	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1333-40 MS

Matrix: Solid

Analysis Batch: 8783

Client Sample ID: C-709

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3940		1240	5195		mg/Kg		101	90 - 110

Lab Sample ID: 890-1333-40 MSD

Matrix: Solid

Analysis Batch: 8783

Client Sample ID: C-709

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3940		1240	5253		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 890-1333-49 MS

Matrix: Solid

Analysis Batch: 8783

Client Sample ID: C-72 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1450		250	1625	E 4	mg/Kg		69	90 - 110

Lab Sample ID: 890-1333-49 MSD

Matrix: Solid

Analysis Batch: 8783

Client Sample ID: C-72 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1450		250	1628	E 4	mg/Kg		71	90 - 110	0	20

Lab Sample ID: MB 880-8729/1-A

Matrix: Solid

Analysis Batch: 8838

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/04/21 17:21	1

Lab Sample ID: LCS 880-8729/2-A

Matrix: Solid

Analysis Batch: 8838

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	262.4		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-8729/3-A

Matrix: Solid

Analysis Batch: 8838

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	263.5		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-1333-28 MS

Matrix: Solid

Analysis Batch: 8838

Client Sample ID: C-697

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	366		248	609.8		mg/Kg		98	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1333-28 MSD

Matrix: Solid

Analysis Batch: 8838

Client Sample ID: C-697

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	366		248	611.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-1333-38 MS

Matrix: Solid

Analysis Batch: 8838

Client Sample ID: C-707

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1580		1250	2885		mg/Kg		105	90 - 110		

Lab Sample ID: 890-1333-38 MSD

Matrix: Solid

Analysis Batch: 8838

Client Sample ID: C-707

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1580		1250	2888		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-8735/1-A

Matrix: Solid

Analysis Batch: 8937

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/05/21 12:55	1

Lab Sample ID: LCS 880-8735/2-A

Matrix: Solid

Analysis Batch: 8937

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	248.9		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-8735/3-A

Matrix: Solid

Analysis Batch: 8937

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1333-6 MS

Matrix: Solid

Analysis Batch: 8937

Client Sample ID: C-675

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	488		248	725.6		mg/Kg		96	90 - 110		

Lab Sample ID: 890-1333-6 MSD

Matrix: Solid

Analysis Batch: 8937

Client Sample ID: C-675

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	488		248	724.9		mg/Kg		96	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1333-16 MS

Matrix: Solid

Analysis Batch: 8937

Client Sample ID: C-677

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	284		250	524.7		mg/Kg		97	90 - 110

Lab Sample ID: 890-1333-16 MSD

Matrix: Solid

Analysis Batch: 8937

Client Sample ID: C-677

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	284		250	530.9		mg/Kg		99	90 - 110	1	20

Lab Sample ID: MB 880-8736/1-A

Matrix: Solid

Analysis Batch: 8938

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/05/21 13:03	1

Lab Sample ID: LCS 880-8736/2-A

Matrix: Solid

Analysis Batch: 8938

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	270.1		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-8736/3-A

Matrix: Solid

Analysis Batch: 8938

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	268.5		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 890-1333-26 MS

Matrix: Solid

Analysis Batch: 8938

Client Sample ID: C-695

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	179	F1	248	454.2	F1	mg/Kg		111	90 - 110

Lab Sample ID: 890-1333-26 MSD

Matrix: Solid

Analysis Batch: 8938

Client Sample ID: C-695

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	179	F1	248	444.3		mg/Kg		107	90 - 110	2	20

Lab Sample ID: MB 880-8734/1-A

Matrix: Solid

Analysis Batch: 8968

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/06/21 04:25	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-8734/2-A

Matrix: Solid

Analysis Batch: 8968

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	252.1		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-8734/3-A

Matrix: Solid

Analysis Batch: 8968

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	255.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-6709-A-13-A MS

Matrix: Solid

Analysis Batch: 8968

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	444		248	705.3		mg/Kg		105	90 - 110		

Lab Sample ID: 880-6709-A-13-B MSD

Matrix: Solid

Analysis Batch: 8968

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	444		248	711.7		mg/Kg		108	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

GC VOA

Prep Batch: 8533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8533/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8534/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-1	C-670	Total/NA	Solid	5035	
890-1333-2	C-671	Total/NA	Solid	5035	
890-1333-3	C-672	Total/NA	Solid	5035	
890-1333-4	C-673	Total/NA	Solid	5035	
890-1333-5	C-674	Total/NA	Solid	5035	
890-1333-6	C-675	Total/NA	Solid	5035	
890-1333-7	C-676	Total/NA	Solid	5035	
890-1333-8	C-678	Total/NA	Solid	5035	
890-1333-9	C-679	Total/NA	Solid	5035	
890-1333-10	C-680	Total/NA	Solid	5035	
890-1333-11	C-681	Total/NA	Solid	5035	
890-1333-12	C-682	Total/NA	Solid	5035	
890-1333-13	C-683	Total/NA	Solid	5035	
890-1333-14	C-684	Total/NA	Solid	5035	
890-1333-15	C-685	Total/NA	Solid	5035	
890-1333-16	C-677	Total/NA	Solid	5035	
890-1333-17	C-686	Total/NA	Solid	5035	
890-1333-18	C-687	Total/NA	Solid	5035	
890-1333-19	C-688	Total/NA	Solid	5035	
890-1333-20	C-689	Total/NA	Solid	5035	
MB 880-8656/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8656/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8656/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1333-1 MS	C-670	Total/NA	Solid	5035	
890-1333-1 MSD	C-670	Total/NA	Solid	5035	

Prep Batch: 8657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-21	C-690	Total/NA	Solid	5035	
890-1333-22	C-691	Total/NA	Solid	5035	
890-1333-23	C-692	Total/NA	Solid	5035	
890-1333-24	C-693	Total/NA	Solid	5035	
890-1333-25	C-694	Total/NA	Solid	5035	
890-1333-26	C-695	Total/NA	Solid	5035	
890-1333-27	C-696	Total/NA	Solid	5035	
890-1333-28	C-697	Total/NA	Solid	5035	
890-1333-29	C-698	Total/NA	Solid	5035	
890-1333-30	C-699	Total/NA	Solid	5035	
890-1333-31	C-700	Total/NA	Solid	5035	
890-1333-32	C-701	Total/NA	Solid	5035	
890-1333-33	C-702	Total/NA	Solid	5035	
890-1333-34	C-703	Total/NA	Solid	5035	
890-1333-35	C-704	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 8657 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-36	C-705	Total/NA	Solid	5035	
890-1333-37	C-706	Total/NA	Solid	5035	
890-1333-38	C-707	Total/NA	Solid	5035	
890-1333-39	C-708	Total/NA	Solid	5035	
890-1333-40	C-709	Total/NA	Solid	5035	
MB 880-8657/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8657/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8657/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1333-21 MS	C-690	Total/NA	Solid	5035	
890-1333-21 MSD	C-690	Total/NA	Solid	5035	

Prep Batch: 8658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-41	C-710	Total/NA	Solid	5035	
890-1333-42	C-711	Total/NA	Solid	5035	
890-1333-43	C-712	Total/NA	Solid	5035	
890-1333-44	C-713	Total/NA	Solid	5035	
890-1333-45	C-714	Total/NA	Solid	5035	
890-1333-46	C-715	Total/NA	Solid	5035	
890-1333-47	C-716	Total/NA	Solid	5035	
890-1333-48	C-61 3'	Total/NA	Solid	5035	
890-1333-49	C-72 4.1'	Total/NA	Solid	5035	
890-1333-50	C-83 4.1'	Total/NA	Solid	5035	
890-1333-51	C-162 4.1'	Total/NA	Solid	5035	
890-1333-52	C-200 4.1'	Total/NA	Solid	5035	
890-1333-53	C-201 4.1'	Total/NA	Solid	5035	
MB 880-8658/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8658/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8658/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1333-41 MS	C-710	Total/NA	Solid	5035	
890-1333-41 MSD	C-710	Total/NA	Solid	5035	

Analysis Batch: 8712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-41	C-710	Total/NA	Solid	8021B	8658
890-1333-42	C-711	Total/NA	Solid	8021B	8658
890-1333-43	C-712	Total/NA	Solid	8021B	8658
890-1333-44	C-713	Total/NA	Solid	8021B	8658
890-1333-45	C-714	Total/NA	Solid	8021B	8658
890-1333-46	C-715	Total/NA	Solid	8021B	8658
890-1333-47	C-716	Total/NA	Solid	8021B	8658
890-1333-48	C-61 3'	Total/NA	Solid	8021B	8658
890-1333-49	C-72 4.1'	Total/NA	Solid	8021B	8658
890-1333-50	C-83 4.1'	Total/NA	Solid	8021B	8658
890-1333-51	C-162 4.1'	Total/NA	Solid	8021B	8658
890-1333-52	C-200 4.1'	Total/NA	Solid	8021B	8658
890-1333-53	C-201 4.1'	Total/NA	Solid	8021B	8658
MB 880-8533/5-A	Method Blank	Total/NA	Solid	8021B	8533
MB 880-8658/5-A	Method Blank	Total/NA	Solid	8021B	8658
LCS 880-8658/1-A	Lab Control Sample	Total/NA	Solid	8021B	8658
LCSD 880-8658/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8658

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8712 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-41 MS	C-710	Total/NA	Solid	8021B	8658
890-1333-41 MSD	C-710	Total/NA	Solid	8021B	8658

Analysis Batch: 8713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-1	C-670	Total/NA	Solid	8021B	8656
890-1333-2	C-671	Total/NA	Solid	8021B	8656
890-1333-3	C-672	Total/NA	Solid	8021B	8656
890-1333-4	C-673	Total/NA	Solid	8021B	8656
890-1333-5	C-674	Total/NA	Solid	8021B	8656
890-1333-6	C-675	Total/NA	Solid	8021B	8656
890-1333-7	C-676	Total/NA	Solid	8021B	8656
890-1333-8	C-678	Total/NA	Solid	8021B	8656
890-1333-9	C-679	Total/NA	Solid	8021B	8656
890-1333-10	C-680	Total/NA	Solid	8021B	8656
890-1333-11	C-681	Total/NA	Solid	8021B	8656
890-1333-12	C-682	Total/NA	Solid	8021B	8656
890-1333-13	C-683	Total/NA	Solid	8021B	8656
890-1333-14	C-684	Total/NA	Solid	8021B	8656
890-1333-15	C-685	Total/NA	Solid	8021B	8656
890-1333-16	C-677	Total/NA	Solid	8021B	8656
890-1333-17	C-686	Total/NA	Solid	8021B	8656
890-1333-18	C-687	Total/NA	Solid	8021B	8656
890-1333-19	C-688	Total/NA	Solid	8021B	8656
890-1333-20	C-689	Total/NA	Solid	8021B	8656
890-1333-21	C-690	Total/NA	Solid	8021B	8657
890-1333-22	C-691	Total/NA	Solid	8021B	8657
890-1333-23	C-692	Total/NA	Solid	8021B	8657
890-1333-24	C-693	Total/NA	Solid	8021B	8657
890-1333-25	C-694	Total/NA	Solid	8021B	8657
890-1333-26	C-695	Total/NA	Solid	8021B	8657
890-1333-27	C-696	Total/NA	Solid	8021B	8657
890-1333-28	C-697	Total/NA	Solid	8021B	8657
890-1333-29	C-698	Total/NA	Solid	8021B	8657
890-1333-30	C-699	Total/NA	Solid	8021B	8657
890-1333-31	C-700	Total/NA	Solid	8021B	8657
890-1333-32	C-701	Total/NA	Solid	8021B	8657
890-1333-33	C-702	Total/NA	Solid	8021B	8657
890-1333-34	C-703	Total/NA	Solid	8021B	8657
890-1333-35	C-704	Total/NA	Solid	8021B	8657
890-1333-36	C-705	Total/NA	Solid	8021B	8657
890-1333-37	C-706	Total/NA	Solid	8021B	8657
890-1333-38	C-707	Total/NA	Solid	8021B	8657
890-1333-39	C-708	Total/NA	Solid	8021B	8657
890-1333-40	C-709	Total/NA	Solid	8021B	8657
MB 880-8534/5-A	Method Blank	Total/NA	Solid	8021B	8534
MB 880-8656/5-A	Method Blank	Total/NA	Solid	8021B	8656
MB 880-8657/5-A	Method Blank	Total/NA	Solid	8021B	8657
LCS 880-8656/1-A	Lab Control Sample	Total/NA	Solid	8021B	8656
LCS 880-8657/1-A	Lab Control Sample	Total/NA	Solid	8021B	8657
LCSD 880-8656/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8656

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8713 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-8657/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8657
890-1333-1 MS	C-670	Total/NA	Solid	8021B	8656
890-1333-1 MSD	C-670	Total/NA	Solid	8021B	8656
890-1333-21 MS	C-690	Total/NA	Solid	8021B	8657
890-1333-21 MSD	C-690	Total/NA	Solid	8021B	8657

Analysis Batch: 8717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-41	C-710	Total/NA	Solid	Total BTEX	
890-1333-42	C-711	Total/NA	Solid	Total BTEX	
890-1333-43	C-712	Total/NA	Solid	Total BTEX	
890-1333-44	C-713	Total/NA	Solid	Total BTEX	
890-1333-45	C-714	Total/NA	Solid	Total BTEX	
890-1333-46	C-715	Total/NA	Solid	Total BTEX	
890-1333-47	C-716	Total/NA	Solid	Total BTEX	
890-1333-48	C-61 3'	Total/NA	Solid	Total BTEX	
890-1333-49	C-72 4.1'	Total/NA	Solid	Total BTEX	
890-1333-50	C-83 4.1'	Total/NA	Solid	Total BTEX	
890-1333-51	C-162 4.1'	Total/NA	Solid	Total BTEX	
890-1333-52	C-200 4.1'	Total/NA	Solid	Total BTEX	
890-1333-53	C-201 4.1'	Total/NA	Solid	Total BTEX	

Analysis Batch: 8723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-1	C-670	Total/NA	Solid	Total BTEX	
890-1333-2	C-671	Total/NA	Solid	Total BTEX	
890-1333-3	C-672	Total/NA	Solid	Total BTEX	
890-1333-4	C-673	Total/NA	Solid	Total BTEX	
890-1333-5	C-674	Total/NA	Solid	Total BTEX	
890-1333-6	C-675	Total/NA	Solid	Total BTEX	
890-1333-7	C-676	Total/NA	Solid	Total BTEX	
890-1333-8	C-678	Total/NA	Solid	Total BTEX	
890-1333-9	C-679	Total/NA	Solid	Total BTEX	
890-1333-10	C-680	Total/NA	Solid	Total BTEX	
890-1333-11	C-681	Total/NA	Solid	Total BTEX	
890-1333-12	C-682	Total/NA	Solid	Total BTEX	
890-1333-13	C-683	Total/NA	Solid	Total BTEX	
890-1333-14	C-684	Total/NA	Solid	Total BTEX	
890-1333-15	C-685	Total/NA	Solid	Total BTEX	
890-1333-16	C-677	Total/NA	Solid	Total BTEX	
890-1333-17	C-686	Total/NA	Solid	Total BTEX	
890-1333-18	C-687	Total/NA	Solid	Total BTEX	
890-1333-19	C-688	Total/NA	Solid	Total BTEX	
890-1333-20	C-689	Total/NA	Solid	Total BTEX	
890-1333-21	C-690	Total/NA	Solid	Total BTEX	
890-1333-22	C-691	Total/NA	Solid	Total BTEX	
890-1333-23	C-692	Total/NA	Solid	Total BTEX	
890-1333-24	C-693	Total/NA	Solid	Total BTEX	
890-1333-25	C-694	Total/NA	Solid	Total BTEX	
890-1333-27	C-696	Total/NA	Solid	Total BTEX	
890-1333-28	C-697	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8723 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-29	C-698	Total/NA	Solid	Total BTEX	
890-1333-30	C-699	Total/NA	Solid	Total BTEX	
890-1333-31	C-700	Total/NA	Solid	Total BTEX	
890-1333-32	C-701	Total/NA	Solid	Total BTEX	
890-1333-33	C-702	Total/NA	Solid	Total BTEX	
890-1333-34	C-703	Total/NA	Solid	Total BTEX	
890-1333-35	C-704	Total/NA	Solid	Total BTEX	
890-1333-36	C-705	Total/NA	Solid	Total BTEX	
890-1333-37	C-706	Total/NA	Solid	Total BTEX	
890-1333-38	C-707	Total/NA	Solid	Total BTEX	
890-1333-39	C-708	Total/NA	Solid	Total BTEX	
890-1333-40	C-709	Total/NA	Solid	Total BTEX	

Analysis Batch: 9000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-26	C-695	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 8630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-1	C-670	Total/NA	Solid	8015B NM	8651
890-1333-2	C-671	Total/NA	Solid	8015B NM	8651
890-1333-3	C-672	Total/NA	Solid	8015B NM	8651
890-1333-4	C-673	Total/NA	Solid	8015B NM	8651
890-1333-5	C-674	Total/NA	Solid	8015B NM	8651
890-1333-6	C-675	Total/NA	Solid	8015B NM	8651
890-1333-7	C-676	Total/NA	Solid	8015B NM	8651
890-1333-8	C-678	Total/NA	Solid	8015B NM	8651
890-1333-9	C-679	Total/NA	Solid	8015B NM	8651
890-1333-10	C-680	Total/NA	Solid	8015B NM	8651
890-1333-11	C-681	Total/NA	Solid	8015B NM	8651
890-1333-12	C-682	Total/NA	Solid	8015B NM	8651
890-1333-13	C-683	Total/NA	Solid	8015B NM	8651
890-1333-14	C-684	Total/NA	Solid	8015B NM	8651
890-1333-15	C-685	Total/NA	Solid	8015B NM	8651
890-1333-16	C-677	Total/NA	Solid	8015B NM	8651
890-1333-17	C-686	Total/NA	Solid	8015B NM	8651
890-1333-18	C-687	Total/NA	Solid	8015B NM	8651
890-1333-19	C-688	Total/NA	Solid	8015B NM	8651
890-1333-20	C-689	Total/NA	Solid	8015B NM	8651
MB 880-8651/1-A	Method Blank	Total/NA	Solid	8015B NM	8651
LCS 880-8651/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8651
LCSD 880-8651/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8651
890-1333-1 MS	C-670	Total/NA	Solid	8015B NM	8651
890-1333-1 MSD	C-670	Total/NA	Solid	8015B NM	8651

Analysis Batch: 8632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-21	C-690	Total/NA	Solid	8015B NM	8669
890-1333-22	C-691	Total/NA	Solid	8015B NM	8669

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8632 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-23	C-692	Total/NA	Solid	8015B NM	8669
890-1333-24	C-693	Total/NA	Solid	8015B NM	8669
890-1333-25	C-694	Total/NA	Solid	8015B NM	8669
890-1333-26	C-695	Total/NA	Solid	8015B NM	8669
890-1333-27	C-696	Total/NA	Solid	8015B NM	8669
890-1333-28	C-697	Total/NA	Solid	8015B NM	8669
890-1333-29	C-698	Total/NA	Solid	8015B NM	8669
890-1333-30	C-699	Total/NA	Solid	8015B NM	8669
890-1333-31	C-700	Total/NA	Solid	8015B NM	8669
890-1333-32	C-701	Total/NA	Solid	8015B NM	8669
890-1333-33	C-702	Total/NA	Solid	8015B NM	8669
890-1333-34	C-703	Total/NA	Solid	8015B NM	8669
890-1333-35	C-704	Total/NA	Solid	8015B NM	8669
890-1333-36	C-705	Total/NA	Solid	8015B NM	8669
890-1333-37	C-706	Total/NA	Solid	8015B NM	8669
890-1333-38	C-707	Total/NA	Solid	8015B NM	8669
890-1333-39	C-708	Total/NA	Solid	8015B NM	8669
890-1333-40	C-709	Total/NA	Solid	8015B NM	8669
MB 880-8669/1-A	Method Blank	Total/NA	Solid	8015B NM	8669
LCS 880-8669/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8669
LCSD 880-8669/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8669
890-1333-21 MS	C-690	Total/NA	Solid	8015B NM	8669
890-1333-21 MSD	C-690	Total/NA	Solid	8015B NM	8669

Prep Batch: 8651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-1	C-670	Total/NA	Solid	8015NM Prep	
890-1333-2	C-671	Total/NA	Solid	8015NM Prep	
890-1333-3	C-672	Total/NA	Solid	8015NM Prep	
890-1333-4	C-673	Total/NA	Solid	8015NM Prep	
890-1333-5	C-674	Total/NA	Solid	8015NM Prep	
890-1333-6	C-675	Total/NA	Solid	8015NM Prep	
890-1333-7	C-676	Total/NA	Solid	8015NM Prep	
890-1333-8	C-678	Total/NA	Solid	8015NM Prep	
890-1333-9	C-679	Total/NA	Solid	8015NM Prep	
890-1333-10	C-680	Total/NA	Solid	8015NM Prep	
890-1333-11	C-681	Total/NA	Solid	8015NM Prep	
890-1333-12	C-682	Total/NA	Solid	8015NM Prep	
890-1333-13	C-683	Total/NA	Solid	8015NM Prep	
890-1333-14	C-684	Total/NA	Solid	8015NM Prep	
890-1333-15	C-685	Total/NA	Solid	8015NM Prep	
890-1333-16	C-677	Total/NA	Solid	8015NM Prep	
890-1333-17	C-686	Total/NA	Solid	8015NM Prep	
890-1333-18	C-687	Total/NA	Solid	8015NM Prep	
890-1333-19	C-688	Total/NA	Solid	8015NM Prep	
890-1333-20	C-689	Total/NA	Solid	8015NM Prep	
MB 880-8651/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8651/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8651/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1333-1 MS	C-670	Total/NA	Solid	8015NM Prep	
890-1333-1 MSD	C-670	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 8669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-21	C-690	Total/NA	Solid	8015NM Prep	
890-1333-22	C-691	Total/NA	Solid	8015NM Prep	
890-1333-23	C-692	Total/NA	Solid	8015NM Prep	
890-1333-24	C-693	Total/NA	Solid	8015NM Prep	
890-1333-25	C-694	Total/NA	Solid	8015NM Prep	
890-1333-26	C-695	Total/NA	Solid	8015NM Prep	
890-1333-27	C-696	Total/NA	Solid	8015NM Prep	
890-1333-28	C-697	Total/NA	Solid	8015NM Prep	
890-1333-29	C-698	Total/NA	Solid	8015NM Prep	
890-1333-30	C-699	Total/NA	Solid	8015NM Prep	
890-1333-31	C-700	Total/NA	Solid	8015NM Prep	
890-1333-32	C-701	Total/NA	Solid	8015NM Prep	
890-1333-33	C-702	Total/NA	Solid	8015NM Prep	
890-1333-34	C-703	Total/NA	Solid	8015NM Prep	
890-1333-35	C-704	Total/NA	Solid	8015NM Prep	
890-1333-36	C-705	Total/NA	Solid	8015NM Prep	
890-1333-37	C-706	Total/NA	Solid	8015NM Prep	
890-1333-38	C-707	Total/NA	Solid	8015NM Prep	
890-1333-39	C-708	Total/NA	Solid	8015NM Prep	
890-1333-40	C-709	Total/NA	Solid	8015NM Prep	
MB 880-8669/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8669/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8669/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1333-21 MS	C-690	Total/NA	Solid	8015NM Prep	
890-1333-21 MSD	C-690	Total/NA	Solid	8015NM Prep	

Prep Batch: 8689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-41	C-710	Total/NA	Solid	8015NM Prep	
890-1333-42	C-711	Total/NA	Solid	8015NM Prep	
890-1333-43	C-712	Total/NA	Solid	8015NM Prep	
890-1333-44	C-713	Total/NA	Solid	8015NM Prep	
890-1333-45	C-714	Total/NA	Solid	8015NM Prep	
890-1333-46	C-715	Total/NA	Solid	8015NM Prep	
890-1333-47	C-716	Total/NA	Solid	8015NM Prep	
890-1333-48	C-61 3'	Total/NA	Solid	8015NM Prep	
890-1333-49	C-72 4.1'	Total/NA	Solid	8015NM Prep	
890-1333-50	C-83 4.1'	Total/NA	Solid	8015NM Prep	
890-1333-51	C-162 4.1'	Total/NA	Solid	8015NM Prep	
890-1333-52	C-200 4.1'	Total/NA	Solid	8015NM Prep	
890-1333-53	C-201 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-8689/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8689/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8689/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1333-41 MS	C-710	Total/NA	Solid	8015NM Prep	
890-1333-41 MSD	C-710	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-41	C-710	Total/NA	Solid	8015B NM	8689
890-1333-42	C-711	Total/NA	Solid	8015B NM	8689

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8701 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-43	C-712	Total/NA	Solid	8015B NM	8689
890-1333-44	C-713	Total/NA	Solid	8015B NM	8689
890-1333-45	C-714	Total/NA	Solid	8015B NM	8689
890-1333-46	C-715	Total/NA	Solid	8015B NM	8689
890-1333-47	C-716	Total/NA	Solid	8015B NM	8689
890-1333-48	C-61 3'	Total/NA	Solid	8015B NM	8689
890-1333-49	C-72 4.1'	Total/NA	Solid	8015B NM	8689
890-1333-50	C-83 4.1'	Total/NA	Solid	8015B NM	8689
890-1333-51	C-162 4.1'	Total/NA	Solid	8015B NM	8689
890-1333-52	C-200 4.1'	Total/NA	Solid	8015B NM	8689
890-1333-53	C-201 4.1'	Total/NA	Solid	8015B NM	8689
MB 880-8689/1-A	Method Blank	Total/NA	Solid	8015B NM	8689
LCS 880-8689/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8689
LCSD 880-8689/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8689
890-1333-41 MS	C-710	Total/NA	Solid	8015B NM	8689
890-1333-41 MSD	C-710	Total/NA	Solid	8015B NM	8689

Analysis Batch: 8890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-1	C-670	Total/NA	Solid	8015 NM	
890-1333-2	C-671	Total/NA	Solid	8015 NM	
890-1333-3	C-672	Total/NA	Solid	8015 NM	
890-1333-4	C-673	Total/NA	Solid	8015 NM	
890-1333-5	C-674	Total/NA	Solid	8015 NM	
890-1333-6	C-675	Total/NA	Solid	8015 NM	
890-1333-7	C-676	Total/NA	Solid	8015 NM	
890-1333-8	C-678	Total/NA	Solid	8015 NM	
890-1333-9	C-679	Total/NA	Solid	8015 NM	
890-1333-10	C-680	Total/NA	Solid	8015 NM	
890-1333-11	C-681	Total/NA	Solid	8015 NM	
890-1333-12	C-682	Total/NA	Solid	8015 NM	
890-1333-13	C-683	Total/NA	Solid	8015 NM	
890-1333-14	C-684	Total/NA	Solid	8015 NM	
890-1333-15	C-685	Total/NA	Solid	8015 NM	
890-1333-16	C-677	Total/NA	Solid	8015 NM	
890-1333-17	C-686	Total/NA	Solid	8015 NM	
890-1333-18	C-687	Total/NA	Solid	8015 NM	
890-1333-19	C-688	Total/NA	Solid	8015 NM	
890-1333-20	C-689	Total/NA	Solid	8015 NM	
890-1333-21	C-690	Total/NA	Solid	8015 NM	
890-1333-22	C-691	Total/NA	Solid	8015 NM	
890-1333-23	C-692	Total/NA	Solid	8015 NM	
890-1333-24	C-693	Total/NA	Solid	8015 NM	
890-1333-25	C-694	Total/NA	Solid	8015 NM	
890-1333-26	C-695	Total/NA	Solid	8015 NM	
890-1333-27	C-696	Total/NA	Solid	8015 NM	
890-1333-28	C-697	Total/NA	Solid	8015 NM	
890-1333-29	C-698	Total/NA	Solid	8015 NM	
890-1333-30	C-699	Total/NA	Solid	8015 NM	
890-1333-31	C-700	Total/NA	Solid	8015 NM	
890-1333-32	C-701	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-33	C-702	Total/NA	Solid	8015 NM	
890-1333-34	C-703	Total/NA	Solid	8015 NM	
890-1333-35	C-704	Total/NA	Solid	8015 NM	
890-1333-36	C-705	Total/NA	Solid	8015 NM	
890-1333-37	C-706	Total/NA	Solid	8015 NM	
890-1333-38	C-707	Total/NA	Solid	8015 NM	
890-1333-39	C-708	Total/NA	Solid	8015 NM	
890-1333-40	C-709	Total/NA	Solid	8015 NM	
890-1333-41	C-710	Total/NA	Solid	8015 NM	
890-1333-42	C-711	Total/NA	Solid	8015 NM	
890-1333-43	C-712	Total/NA	Solid	8015 NM	
890-1333-44	C-713	Total/NA	Solid	8015 NM	
890-1333-45	C-714	Total/NA	Solid	8015 NM	
890-1333-46	C-715	Total/NA	Solid	8015 NM	
890-1333-47	C-716	Total/NA	Solid	8015 NM	
890-1333-48	C-61 3'	Total/NA	Solid	8015 NM	
890-1333-49	C-72 4.1'	Total/NA	Solid	8015 NM	
890-1333-50	C-83 4.1'	Total/NA	Solid	8015 NM	
890-1333-51	C-162 4.1'	Total/NA	Solid	8015 NM	
890-1333-52	C-200 4.1'	Total/NA	Solid	8015 NM	
890-1333-53	C-201 4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 8726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-40	C-709	Soluble	Solid	DI Leach	
890-1333-41	C-710	Soluble	Solid	DI Leach	
890-1333-42	C-711	Soluble	Solid	DI Leach	
890-1333-43	C-712	Soluble	Solid	DI Leach	
890-1333-44	C-713	Soluble	Solid	DI Leach	
890-1333-45	C-714	Soluble	Solid	DI Leach	
890-1333-46	C-715	Soluble	Solid	DI Leach	
890-1333-47	C-716	Soluble	Solid	DI Leach	
890-1333-48	C-61 3'	Soluble	Solid	DI Leach	
890-1333-49	C-72 4.1'	Soluble	Solid	DI Leach	
890-1333-50	C-83 4.1'	Soluble	Solid	DI Leach	
890-1333-51	C-162 4.1'	Soluble	Solid	DI Leach	
890-1333-52	C-200 4.1'	Soluble	Solid	DI Leach	
890-1333-53	C-201 4.1'	Soluble	Solid	DI Leach	
MB 880-8726/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8726/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8726/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1333-40 MS	C-709	Soluble	Solid	DI Leach	
890-1333-40 MSD	C-709	Soluble	Solid	DI Leach	
890-1333-49 MS	C-72 4.1'	Soluble	Solid	DI Leach	
890-1333-49 MSD	C-72 4.1'	Soluble	Solid	DI Leach	

Leach Batch: 8729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-28	C-697	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-29	C-698	Soluble	Solid	DI Leach	
890-1333-30	C-699	Soluble	Solid	DI Leach	
890-1333-31	C-700	Soluble	Solid	DI Leach	
890-1333-32	C-701	Soluble	Solid	DI Leach	
890-1333-33	C-702	Soluble	Solid	DI Leach	
890-1333-34	C-703	Soluble	Solid	DI Leach	
890-1333-35	C-704	Soluble	Solid	DI Leach	
890-1333-36	C-705	Soluble	Solid	DI Leach	
890-1333-37	C-706	Soluble	Solid	DI Leach	
890-1333-38	C-707	Soluble	Solid	DI Leach	
890-1333-39	C-708	Soluble	Solid	DI Leach	
MB 880-8729/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8729/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8729/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1333-28 MS	C-697	Soluble	Solid	DI Leach	
890-1333-28 MSD	C-697	Soluble	Solid	DI Leach	
890-1333-38 MS	C-707	Soluble	Solid	DI Leach	
890-1333-38 MSD	C-707	Soluble	Solid	DI Leach	

Leach Batch: 8734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-1	C-670	Soluble	Solid	DI Leach	
890-1333-2	C-671	Soluble	Solid	DI Leach	
890-1333-3	C-672	Soluble	Solid	DI Leach	
890-1333-4	C-673	Soluble	Solid	DI Leach	
890-1333-5	C-674	Soluble	Solid	DI Leach	
MB 880-8734/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8734/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8734/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6709-A-13-A MS	Matrix Spike	Soluble	Solid	DI Leach	
880-6709-A-13-B MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 8735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-6	C-675	Soluble	Solid	DI Leach	
890-1333-7	C-676	Soluble	Solid	DI Leach	
890-1333-8	C-678	Soluble	Solid	DI Leach	
890-1333-9	C-679	Soluble	Solid	DI Leach	
890-1333-10	C-680	Soluble	Solid	DI Leach	
890-1333-11	C-681	Soluble	Solid	DI Leach	
890-1333-12	C-682	Soluble	Solid	DI Leach	
890-1333-13	C-683	Soluble	Solid	DI Leach	
890-1333-14	C-684	Soluble	Solid	DI Leach	
890-1333-15	C-685	Soluble	Solid	DI Leach	
890-1333-16	C-677	Soluble	Solid	DI Leach	
890-1333-17	C-686	Soluble	Solid	DI Leach	
890-1333-18	C-687	Soluble	Solid	DI Leach	
890-1333-19	C-688	Soluble	Solid	DI Leach	
890-1333-20	C-689	Soluble	Solid	DI Leach	
890-1333-21	C-690	Soluble	Solid	DI Leach	
890-1333-22	C-691	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8735 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-23	C-692	Soluble	Solid	DI Leach	
890-1333-24	C-693	Soluble	Solid	DI Leach	
890-1333-25	C-694	Soluble	Solid	DI Leach	
MB 880-8735/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8735/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8735/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1333-6 MS	C-675	Soluble	Solid	DI Leach	
890-1333-6 MSD	C-675	Soluble	Solid	DI Leach	
890-1333-16 MS	C-677	Soluble	Solid	DI Leach	
890-1333-16 MSD	C-677	Soluble	Solid	DI Leach	

Leach Batch: 8736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-26	C-695	Soluble	Solid	DI Leach	
890-1333-27	C-696	Soluble	Solid	DI Leach	
MB 880-8736/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8736/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8736/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1333-26 MS	C-695	Soluble	Solid	DI Leach	
890-1333-26 MSD	C-695	Soluble	Solid	DI Leach	

Analysis Batch: 8783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-40	C-709	Soluble	Solid	300.0	8726
890-1333-41	C-710	Soluble	Solid	300.0	8726
890-1333-42	C-711	Soluble	Solid	300.0	8726
890-1333-43	C-712	Soluble	Solid	300.0	8726
890-1333-44	C-713	Soluble	Solid	300.0	8726
890-1333-45	C-714	Soluble	Solid	300.0	8726
890-1333-46	C-715	Soluble	Solid	300.0	8726
890-1333-47	C-716	Soluble	Solid	300.0	8726
890-1333-48	C-61 3'	Soluble	Solid	300.0	8726
890-1333-49	C-72 4.1'	Soluble	Solid	300.0	8726
890-1333-50	C-83 4.1'	Soluble	Solid	300.0	8726
890-1333-51	C-162 4.1'	Soluble	Solid	300.0	8726
890-1333-52	C-200 4.1'	Soluble	Solid	300.0	8726
890-1333-53	C-201 4.1'	Soluble	Solid	300.0	8726
MB 880-8726/1-A	Method Blank	Soluble	Solid	300.0	8726
LCS 880-8726/2-A	Lab Control Sample	Soluble	Solid	300.0	8726
LCSD 880-8726/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8726
890-1333-40 MS	C-709	Soluble	Solid	300.0	8726
890-1333-40 MSD	C-709	Soluble	Solid	300.0	8726
890-1333-49 MS	C-72 4.1'	Soluble	Solid	300.0	8726
890-1333-49 MSD	C-72 4.1'	Soluble	Solid	300.0	8726

Analysis Batch: 8838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-28	C-697	Soluble	Solid	300.0	8729
890-1333-29	C-698	Soluble	Solid	300.0	8729
890-1333-30	C-699	Soluble	Solid	300.0	8729
890-1333-31	C-700	Soluble	Solid	300.0	8729

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 8838 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-32	C-701	Soluble	Solid	300.0	8729
890-1333-33	C-702	Soluble	Solid	300.0	8729
890-1333-34	C-703	Soluble	Solid	300.0	8729
890-1333-35	C-704	Soluble	Solid	300.0	8729
890-1333-36	C-705	Soluble	Solid	300.0	8729
890-1333-37	C-706	Soluble	Solid	300.0	8729
890-1333-38	C-707	Soluble	Solid	300.0	8729
890-1333-39	C-708	Soluble	Solid	300.0	8729
MB 880-8729/1-A	Method Blank	Soluble	Solid	300.0	8729
LCS 880-8729/2-A	Lab Control Sample	Soluble	Solid	300.0	8729
LCSD 880-8729/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8729
890-1333-28 MS	C-697	Soluble	Solid	300.0	8729
890-1333-28 MSD	C-697	Soluble	Solid	300.0	8729
890-1333-38 MS	C-707	Soluble	Solid	300.0	8729
890-1333-38 MSD	C-707	Soluble	Solid	300.0	8729

Analysis Batch: 8937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-6	C-675	Soluble	Solid	300.0	8735
890-1333-7	C-676	Soluble	Solid	300.0	8735
890-1333-8	C-678	Soluble	Solid	300.0	8735
890-1333-9	C-679	Soluble	Solid	300.0	8735
890-1333-10	C-680	Soluble	Solid	300.0	8735
890-1333-11	C-681	Soluble	Solid	300.0	8735
890-1333-12	C-682	Soluble	Solid	300.0	8735
890-1333-13	C-683	Soluble	Solid	300.0	8735
890-1333-14	C-684	Soluble	Solid	300.0	8735
890-1333-15	C-685	Soluble	Solid	300.0	8735
890-1333-16	C-677	Soluble	Solid	300.0	8735
890-1333-17	C-686	Soluble	Solid	300.0	8735
890-1333-18	C-687	Soluble	Solid	300.0	8735
890-1333-19	C-688	Soluble	Solid	300.0	8735
890-1333-20	C-689	Soluble	Solid	300.0	8735
890-1333-21	C-690	Soluble	Solid	300.0	8735
890-1333-22	C-691	Soluble	Solid	300.0	8735
890-1333-23	C-692	Soluble	Solid	300.0	8735
890-1333-24	C-693	Soluble	Solid	300.0	8735
890-1333-25	C-694	Soluble	Solid	300.0	8735
MB 880-8735/1-A	Method Blank	Soluble	Solid	300.0	8735
LCS 880-8735/2-A	Lab Control Sample	Soluble	Solid	300.0	8735
LCSD 880-8735/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8735
890-1333-6 MS	C-675	Soluble	Solid	300.0	8735
890-1333-6 MSD	C-675	Soluble	Solid	300.0	8735
890-1333-16 MS	C-677	Soluble	Solid	300.0	8735
890-1333-16 MSD	C-677	Soluble	Solid	300.0	8735

Analysis Batch: 8938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-26	C-695	Soluble	Solid	300.0	8736
890-1333-27	C-696	Soluble	Solid	300.0	8736
MB 880-8736/1-A	Method Blank	Soluble	Solid	300.0	8736

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 8938 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-8736/2-A	Lab Control Sample	Soluble	Solid	300.0	8736
LCSD 880-8736/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8736
890-1333-26 MS	C-695	Soluble	Solid	300.0	8736
890-1333-26 MSD	C-695	Soluble	Solid	300.0	8736

Analysis Batch: 8968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1333-1	C-670	Soluble	Solid	300.0	8734
890-1333-2	C-671	Soluble	Solid	300.0	8734
890-1333-3	C-672	Soluble	Solid	300.0	8734
890-1333-4	C-673	Soluble	Solid	300.0	8734
890-1333-5	C-674	Soluble	Solid	300.0	8734
MB 880-8734/1-A	Method Blank	Soluble	Solid	300.0	8734
LCS 880-8734/2-A	Lab Control Sample	Soluble	Solid	300.0	8734
LCSD 880-8734/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8734
880-6709-A-13-A MS	Matrix Spike	Soluble	Solid	300.0	8734
880-6709-A-13-B MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8734

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-670

Lab Sample ID: 890-1333-1

Date Collected: 09/29/21 13:30

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 22:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 22:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8734	10/01/21 12:10	CA	XEN MID
Soluble	Analysis	300.0		1			8968	10/06/21 07:31	CH	XEN MID

Client Sample ID: C-671

Lab Sample ID: 890-1333-2

Date Collected: 09/29/21 13:31

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 22:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 23:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8734	10/01/21 12:10	CA	XEN MID
Soluble	Analysis	300.0		1			8968	10/06/21 07:39	CH	XEN MID

Client Sample ID: C-672

Lab Sample ID: 890-1333-3

Date Collected: 09/29/21 13:32

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 22:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	09/30/21 23:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8734	10/01/21 12:10	CA	XEN MID
Soluble	Analysis	300.0		1			8968	10/06/21 07:46	CH	XEN MID

Client Sample ID: C-673

Lab Sample ID: 890-1333-4

Date Collected: 09/29/21 13:33

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 23:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-673

Lab Sample ID: 890-1333-4

Date Collected: 09/29/21 13:33

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 00:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8734	10/01/21 12:10	CA	XEN MID
Soluble	Analysis	300.0		1			8968	10/06/21 07:53	CH	XEN MID

Client Sample ID: C-674

Lab Sample ID: 890-1333-5

Date Collected: 09/29/21 13:34

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 23:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 00:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8734	10/01/21 12:10	CA	XEN MID
Soluble	Analysis	300.0		1			8968	10/06/21 08:00	CH	XEN MID

Client Sample ID: C-675

Lab Sample ID: 890-1333-6

Date Collected: 09/29/21 13:45

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/02/21 23:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 00:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 13:16	CH	XEN MID

Client Sample ID: C-676

Lab Sample ID: 890-1333-7

Date Collected: 09/29/21 13:36

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 00:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 01:08	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-676

Lab Sample ID: 890-1333-7

Date Collected: 09/29/21 13:36

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 13:38	CH	XEN MID

Client Sample ID: C-678

Lab Sample ID: 890-1333-8

Date Collected: 09/29/21 13:38

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 00:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 01:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 13:45	CH	XEN MID

Client Sample ID: C-679

Lab Sample ID: 890-1333-9

Date Collected: 09/29/21 13:39

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 00:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 01:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 13:52	CH	XEN MID

Client Sample ID: C-680

Lab Sample ID: 890-1333-10

Date Collected: 09/29/21 13:40

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 01:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 02:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 13:59	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-681

Lab Sample ID: 890-1333-11

Date Collected: 09/29/21 13:41

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 02:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 02:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 14:21	CH	XEN MID

Client Sample ID: C-682

Lab Sample ID: 890-1333-12

Date Collected: 09/29/21 13:42

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 02:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 03:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 14:28	CH	XEN MID

Client Sample ID: C-683

Lab Sample ID: 890-1333-13

Date Collected: 09/29/21 13:43

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 03:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 03:42	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 14:35	CH	XEN MID

Client Sample ID: C-684

Lab Sample ID: 890-1333-14

Date Collected: 09/29/21 13:44

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 03:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-684

Lab Sample ID: 890-1333-14

Date Collected: 09/29/21 13:44

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 04:03	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 14:42	CH	XEN MID

Client Sample ID: C-685

Lab Sample ID: 890-1333-15

Date Collected: 09/29/21 13:45

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 03:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 04:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 14:49	CH	XEN MID

Client Sample ID: C-677

Lab Sample ID: 890-1333-16

Date Collected: 09/29/21 13:37

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 04:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 04:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 14:56	CH	XEN MID

Client Sample ID: C-686

Lab Sample ID: 890-1333-17

Date Collected: 09/29/21 13:46

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 04:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 05:09	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-686**Lab Sample ID: 890-1333-17****Date Collected: 09/29/21 13:46****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 15:18	CH	XEN MID

Client Sample ID: C-687**Lab Sample ID: 890-1333-18****Date Collected: 09/29/21 13:47****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 05:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 05:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 15:25	CH	XEN MID

Client Sample ID: C-688**Lab Sample ID: 890-1333-19****Date Collected: 09/29/21 13:48****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 05:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 05:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 15:46	CH	XEN MID

Client Sample ID: C-689**Lab Sample ID: 890-1333-20****Date Collected: 09/29/21 13:49****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8656	09/30/21 11:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 05:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8651	09/30/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8630	10/01/21 06:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 15:54	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-690

Lab Sample ID: 890-1333-21

Date Collected: 09/29/21 13:50

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 09:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 22:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 16:01	CH	XEN MID

Client Sample ID: C-691

Lab Sample ID: 890-1333-22

Date Collected: 09/29/21 13:51

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 09:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 23:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 16:08	CH	XEN MID

Client Sample ID: C-692

Lab Sample ID: 890-1333-23

Date Collected: 09/29/21 13:52

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 09:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	09/30/21 23:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 16:15	CH	XEN MID

Client Sample ID: C-693

Lab Sample ID: 890-1333-24

Date Collected: 09/29/21 13:53

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			55.04 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 10:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-693**Lab Sample ID: 890-1333-24****Date Collected: 09/29/21 13:53****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 00:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 16:22	CH	XEN MID

Client Sample ID: C-694**Lab Sample ID: 890-1333-25****Date Collected: 09/29/21 13:54****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 10:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 00:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8735	10/01/21 12:13	CA	XEN MID
Soluble	Analysis	300.0		1			8937	10/05/21 16:29	CH	XEN MID

Client Sample ID: C-695**Lab Sample ID: 890-1333-26****Date Collected: 09/29/21 13:55****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 10:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 00:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 13:21	CH	XEN MID

Client Sample ID: C-696**Lab Sample ID: 890-1333-27****Date Collected: 09/29/21 13:56****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 11:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 01:08	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-696**Lab Sample ID: 890-1333-27****Date Collected: 09/29/21 13:56****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 13:40	CH	XEN MID

Client Sample ID: C-697**Lab Sample ID: 890-1333-28****Date Collected: 09/29/21 13:57****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 11:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 01:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 17:38	CH	XEN MID

Client Sample ID: C-698**Lab Sample ID: 890-1333-29****Date Collected: 09/29/21 13:58****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 11:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 01:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 17:54	CH	XEN MID

Client Sample ID: C-699**Lab Sample ID: 890-1333-30****Date Collected: 09/29/21 13:59****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 12:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 02:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 18:00	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-700

Lab Sample ID: 890-1333-31

Date Collected: 09/29/21 14:00

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 13:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 02:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 18:06	CH	XEN MID

Client Sample ID: C-701

Lab Sample ID: 890-1333-32

Date Collected: 09/29/21 14:01

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 14:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 03:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 18:11	CH	XEN MID

Client Sample ID: C-702

Lab Sample ID: 890-1333-33

Date Collected: 09/29/21 14:02

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 14:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 03:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 18:28	CH	XEN MID

Client Sample ID: C-703

Lab Sample ID: 890-1333-34

Date Collected: 09/29/21 14:03

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 14:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-703

Lab Sample ID: 890-1333-34

Date Collected: 09/29/21 14:03

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 04:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		5			8838	10/04/21 18:34	CH	XEN MID

Client Sample ID: C-704

Lab Sample ID: 890-1333-35

Date Collected: 09/29/21 14:04

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 15:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 04:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 18:39	CH	XEN MID

Client Sample ID: C-705

Lab Sample ID: 890-1333-36

Date Collected: 09/29/21 14:05

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 15:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 04:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 18:45	CH	XEN MID

Client Sample ID: C-706

Lab Sample ID: 890-1333-37

Date Collected: 09/29/21 14:06

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 15:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 05:09	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-706**Lab Sample ID: 890-1333-37****Date Collected: 09/29/21 14:06****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 18:51	CH	XEN MID

Client Sample ID: C-707**Lab Sample ID: 890-1333-38****Date Collected: 09/29/21 14:07****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 16:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 05:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		5			8838	10/04/21 18:56	CH	XEN MID

Client Sample ID: C-708**Lab Sample ID: 890-1333-39****Date Collected: 09/29/21 14:08****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 16:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 05:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		5			8838	10/04/21 19:13	CH	XEN MID

Client Sample ID: C-709**Lab Sample ID: 890-1333-40****Date Collected: 09/29/21 14:09****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8657	09/30/21 11:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8713	10/03/21 16:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8723	10/04/21 11:21	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8669	09/30/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8632	10/01/21 06:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		5			8783	10/03/21 13:23	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-710

Lab Sample ID: 890-1333-41

Date Collected: 09/29/21 14:10

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 21:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/01/21 21:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		10			8783	10/03/21 14:03	CH	XEN MID

Client Sample ID: C-711

Lab Sample ID: 890-1333-42

Date Collected: 09/29/21 14:11

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 21:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/01/21 22:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		5			8783	10/03/21 14:16	CH	XEN MID

Client Sample ID: C-712

Lab Sample ID: 890-1333-43

Date Collected: 09/29/21 14:12

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 22:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/01/21 22:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		5			8783	10/03/21 14:29	CH	XEN MID

Client Sample ID: C-713

Lab Sample ID: 890-1333-44

Date Collected: 09/29/21 14:13

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 22:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-713

Lab Sample ID: 890-1333-44

Date Collected: 09/29/21 14:13

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/01/21 22:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		5			8783	10/03/21 14:42	CH	XEN MID

Client Sample ID: C-714

Lab Sample ID: 890-1333-45

Date Collected: 09/29/21 14:14

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 23:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/01/21 23:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		10			8783	10/03/21 15:22	CH	XEN MID

Client Sample ID: C-715

Lab Sample ID: 890-1333-46

Date Collected: 09/29/21 14:15

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 23:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/01/21 23:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		10			8783	10/03/21 15:35	CH	XEN MID

Client Sample ID: C-716

Lab Sample ID: 890-1333-47

Date Collected: 09/29/21 14:16

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/02/21 23:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/01/21 23:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-716**Lab Sample ID: 890-1333-47****Date Collected: 09/29/21 14:16****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		5			8783	10/03/21 15:48	CH	XEN MID

Client Sample ID: C-61 3'**Lab Sample ID: 890-1333-48****Date Collected: 09/29/21 09:00****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 00:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/02/21 00:18	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		1			8783	10/03/21 16:14	CH	XEN MID

Client Sample ID: C-72 4.1'**Lab Sample ID: 890-1333-49****Date Collected: 09/29/21 09:50****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 00:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/02/21 00:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		1			8783	10/03/21 16:27	CH	XEN MID

Client Sample ID: C-83 4.1'**Lab Sample ID: 890-1333-50****Date Collected: 09/29/21 09:30****Matrix: Solid****Date Received: 09/29/21 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 00:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/02/21 01:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		1			8783	10/03/21 17:07	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Client Sample ID: C-162 4.1'

Lab Sample ID: 890-1333-51

Date Collected: 09/29/21 10:15

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 02:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/02/21 01:43	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		1			8783	10/03/21 17:20	CH	XEN MID

Client Sample ID: C-200 4.1'

Lab Sample ID: 890-1333-52

Date Collected: 09/29/21 10:45

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 02:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/02/21 02:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		5			8783	10/03/21 18:00	CH	XEN MID

Client Sample ID: C-201 4.1'

Lab Sample ID: 890-1333-53

Date Collected: 09/29/21 11:00

Matrix: Solid

Date Received: 09/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 02:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8890	10/05/21 10:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8701	10/02/21 02:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8726	10/01/21 11:48	CA	XEN MID
Soluble	Analysis	300.0		5			8783	10/03/21 18:13	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1333-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1333-1	C-670	Solid	09/29/21 13:30	09/29/21 15:00
890-1333-2	C-671	Solid	09/29/21 13:31	09/29/21 15:00
890-1333-3	C-672	Solid	09/29/21 13:32	09/29/21 15:00
890-1333-4	C-673	Solid	09/29/21 13:33	09/29/21 15:00
890-1333-5	C-674	Solid	09/29/21 13:34	09/29/21 15:00
890-1333-6	C-675	Solid	09/29/21 13:45	09/29/21 15:00
890-1333-7	C-676	Solid	09/29/21 13:36	09/29/21 15:00
890-1333-8	C-678	Solid	09/29/21 13:38	09/29/21 15:00
890-1333-9	C-679	Solid	09/29/21 13:39	09/29/21 15:00
890-1333-10	C-680	Solid	09/29/21 13:40	09/29/21 15:00
890-1333-11	C-681	Solid	09/29/21 13:41	09/29/21 15:00
890-1333-12	C-682	Solid	09/29/21 13:42	09/29/21 15:00
890-1333-13	C-683	Solid	09/29/21 13:43	09/29/21 15:00
890-1333-14	C-684	Solid	09/29/21 13:44	09/29/21 15:00
890-1333-15	C-685	Solid	09/29/21 13:45	09/29/21 15:00
890-1333-16	C-677	Solid	09/29/21 13:37	09/29/21 15:00
890-1333-17	C-686	Solid	09/29/21 13:46	09/29/21 15:00
890-1333-18	C-687	Solid	09/29/21 13:47	09/29/21 15:00
890-1333-19	C-688	Solid	09/29/21 13:48	09/29/21 15:00
890-1333-20	C-689	Solid	09/29/21 13:49	09/29/21 15:00
890-1333-21	C-690	Solid	09/29/21 13:50	09/29/21 15:00
890-1333-22	C-691	Solid	09/29/21 13:51	09/29/21 15:00
890-1333-23	C-692	Solid	09/29/21 13:52	09/29/21 15:00
890-1333-24	C-693	Solid	09/29/21 13:53	09/29/21 15:00
890-1333-25	C-694	Solid	09/29/21 13:54	09/29/21 15:00
890-1333-26	C-695	Solid	09/29/21 13:55	09/29/21 15:00
890-1333-27	C-696	Solid	09/29/21 13:56	09/29/21 15:00
890-1333-28	C-697	Solid	09/29/21 13:57	09/29/21 15:00
890-1333-29	C-698	Solid	09/29/21 13:58	09/29/21 15:00
890-1333-30	C-699	Solid	09/29/21 13:59	09/29/21 15:00
890-1333-31	C-700	Solid	09/29/21 14:00	09/29/21 15:00
890-1333-32	C-701	Solid	09/29/21 14:01	09/29/21 15:00
890-1333-33	C-702	Solid	09/29/21 14:02	09/29/21 15:00
890-1333-34	C-703	Solid	09/29/21 14:03	09/29/21 15:00
890-1333-35	C-704	Solid	09/29/21 14:04	09/29/21 15:00
890-1333-36	C-705	Solid	09/29/21 14:05	09/29/21 15:00
890-1333-37	C-706	Solid	09/29/21 14:06	09/29/21 15:00
890-1333-38	C-707	Solid	09/29/21 14:07	09/29/21 15:00
890-1333-39	C-708	Solid	09/29/21 14:08	09/29/21 15:00
890-1333-40	C-709	Solid	09/29/21 14:09	09/29/21 15:00
890-1333-41	C-710	Solid	09/29/21 14:10	09/29/21 15:00
890-1333-42	C-711	Solid	09/29/21 14:11	09/29/21 15:00
890-1333-43	C-712	Solid	09/29/21 14:12	09/29/21 15:00
890-1333-44	C-713	Solid	09/29/21 14:13	09/29/21 15:00
890-1333-45	C-714	Solid	09/29/21 14:14	09/29/21 15:00
890-1333-46	C-715	Solid	09/29/21 14:15	09/29/21 15:00
890-1333-47	C-716	Solid	09/29/21 14:16	09/29/21 15:00
890-1333-48	C-61 3'	Solid	09/29/21 09:00	09/29/21 15:00
890-1333-49	C-72 4.1'	Solid	09/29/21 09:50	09/29/21 15:00
890-1333-50	C-83 4.1'	Solid	09/29/21 09:30	09/29/21 15:00
890-1333-51	C-162 4.1'	Solid	09/29/21 10:15	09/29/21 15:00
890-1333-52	C-200 4.1'	Solid	09/29/21 10:45	09/29/21 15:00
890-1333-53	C-201 4.1'	Solid	09/29/21 11:00	09/29/21 15:00

CHAIN-OF-CUSTODY

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No. 2204

CHAIN-OF-CUSTODY

Arson & associates, Inc. Environmental Consultants 507 N. Marienfeld, Ste. 202 Midland, TX 79701 432-687-0901				DATE: <u>9/29/2021</u> PAGE <u>2</u> OF <u>4</u> PO#: _____ LAB WORK ORDER#: _____ PROJECT LOCATION OR NAME: <u>Palmier Hst</u> LAI PROJECT #: <u>21-0103-02</u> COLLECTOR: <u>DSG</u>							
Data Reported to		PRESERVATION		# of Containers		Matrix		ANALYSES		FIELD NOTES	
TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE	UNPRESERVED				
TIME ZONE Time zone/State <u>MST/ NM</u>	Lab #	Date	Time								
Field Sample ID											
C-687		9/29/21	1337	S							
C-688			1346								
C-687			1347								
C-689			1348								
C-689			1349								
C-690			1350								
C-691			1351								
C-692			1352								
C-693			1353								
C-694			1354								
C-695			1355								
C-696			1356								
C-697			1357								
C-698			1358								
C-699			1359								
TOTAL 15											
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME								
<i>[Signature]</i>	9/29/21 / 1500	<i>[Signature]</i>									
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME								
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME								
LABORATORY	XERO										

LABORATORY USE ONLY:

RECEIVING TEMP 7.2 THERM# T-NM-067CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☒ NOT USED☐ CARRIER BILL # _____☒ HAND DELIVERED

TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

No. 2205

CHAIN-OF-CUSTODY

Arson & Associates, Inc. Environmental Consultants		507 N. Marienfeld, Ste. 202 Midland, TX 79701 432-687-0901		DATE: <u>9/29/2021</u> PAGE <u>3</u> OF <u>4</u> PO#: _____ LAB WORK ORDER#: _____ PROJECT LOCATION OR NAME: <u>Palmer HST</u> LAI PROJECT #: <u>21-0105-02</u> COLLECTOR: <u>DS</u>	
Data Reported to:		PRESERVATION		ANALYSES	
TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	# of Containers	FIELD NOTES	
TIME ZONE Time zone/State <u>NST/NTM</u>	Lab #	Date	Time	Matrix	
Field Sample ID					
C-700		9/29/21	1400	S	
C-701			1401		
C-702			1402		
C-703			1403		
C-704			1404		
C-705			1405		
C-706			1406		
C-707			1407		
C-708			1408		
C-709			1409		
C-710			1410		
C-711			1411		
C-712			1412		
C-713			1413		
C-714			1414		
TOTAL	15				
RELINQUISHED BY (Signature) <u>David</u>	DATE/TIME <u>9/29/21 1500</u>	RECEIVED BY (Signature) <u>N. Gao</u>	DATE/TIME <u>9/29/21 1500</u>	TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME	LABORATORY USE ONLY: RECEIVING TEMP: <u>2.2</u> THERM# <u>F. M. 2021</u> CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED ☐ CARRIER BILL # _____ ☒ HAND DELIVERED	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME		
LABORATORY	<u>Xenoco</u>				

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No. 2206

CHAIN-OF-CUSTODY

Marson & Associates, Inc. Environmental Consultants 507 N. Marienfeld, Ste. 202 Midland, TX 79701 432-687-0901				DATE: <u>9/29/2021</u> PAGE <u>4</u> OF <u>4</u> PO#: _____ LAB WORK ORDER#: _____ PROJECT LOCATION OR NAME: <u>Palma A-1</u> LAI PROJECT #: <u>21-0105-02</u> COLLECTOR: <u>DSG</u>			
Data Reported to:		PRESERVATION		ANALYSES		FIELD NOTES	
TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	# of Containers	HCl	HNO ₃	H ₂ SO ₄ / NaOH	UNPRESERVED
TIME ZONE: Time zone/State <u>MST / NM</u>	Lab #	Date	Time	Matrix			
Field Sample ID							
0-715		9/24/21	1415	S	X	X	X
0-714			1414				
0-661 3'			0900				
0-72 4.1'			0950				
0-83 4.1'			0930				
0-142 4.1'			1015				
0-200 4.1'			1045				
0-201 4.1'			1100				
TOTAL <u>8</u>							
RELINQUISHED BY (Signature) <u>[Signature]</u>		DATE/TIME <u>9/24/2021 1500</u>		RECEIVED BY (Signature)		TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		LABORATORY USE ONLY: RECEIVING TEMP <u>7.2</u> THERM# <u>T-NM-007</u> CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED ☐ CARRIER BILL # _____ ☒ HAND DELIVERED	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)			
LABORATORY <u>Xeno</u>							

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



eurofins
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier/Tracking No(s)	COC No:							
Client Contact:		Phone	Taylor Holly		890-436 1							
Shipping/Receiving		E-Mail	holly.taylor@eurofinsnet.com	State of Origin	Page: 1 of 6							
Company			Accreditations Required (See note):	NE LAP - Louisiana	Job #:							
Eurofins Xenco				NE LAP - Texas	890-1333-1							
Address		Due Date Requested	Analysis Requested									
1211 W Florida Ave.		10/5/2021										
City		TAT Requested (days):										
Midland												
State Zip												
TX, 79701												
Phone		PO #										
432-704-5440(Tel)												
Email		W/O #										
Project Name:		Project #:										
Palmo ast		89000025										
Site		SSOV#										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefl, B=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX - LL	Total Number of containers	Special Instructions/Note:
C-670 (890-1333-1)		9/29/21	13 30		Solid		X	X	X		1	
C-671 (890-1333-2)		9/29/21	13 31		Solid		X	X	X		1	
C-672 (890-1333-3)		9/29/21	13 32		Solid		X	X	X		1	
C-673 (890-1333-4)		9/29/21	13 33		Solid		X	X	X		1	
C-674 (890-1333-5)		9/29/21	13 34		Solid		X	X	X		1	
C-675 (890-1333-6)		9/29/21	13 45		Solid		X	X	X		1	
C-676 (890-1333-7)		9/29/21	13 36		Solid		X	X	X		1	
C-678 (890-1333-8)		9/29/21	13 38		Solid		X	X	X		1	
C-679 (890-1333-9)		9/29/21	13 39		Solid		X	X	X		1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.												
Possible Hazard Identification												
Unconfirmed												
Deliverable Requested I II III IV Other (specify)												
Primary Deliverable Rank: 2												
Special Instructions/QC Requirements												
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)												
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months												
Empty Kit Relinquished by												
Relinquished by												
Date/Time												
Company												
Relinquished by												
Date/Time												
Company												
Relinquished by												
Date/Time												
Company												
Custody Seals Intact												
Delta Yes Delta No												
Custody Seal No												
Cooler Temperature(s) and Other Remarks:												
2-21-21												

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No:							
Client Contact:				Phone	Taylor Holly		890-436.2							
Shipping/Receiving					E-Mail	State of Origin	Page 2 of 6							
Company: Eurofins Xenco					holly.taylor@eurofins.com	New Mexico								
Address: 1211 W Florida Ave.				Due Date Requested: 10/5/2021	Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1333-1							
City: Midland				TAT Requested (days):	Analysis Requested									
State Zip: TX, 79701														
Phone: 432-704-5440(Tel)				PO #:										
Email:				WO #:										
Project Name: Palmco ast				Project #:										
Site				SSOW#:										
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Wastech, BT=Tissue, Anal)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/6036FP_Calc (MOD) BTEX - LL	Total Number of containers	Special Instructions/Note
C-680 (890-1333-10)	9/29/21	13 40	Solid		X	X	X							
C-681 (890-1333-11)	9/29/21	13 41	Solid		X	X	X							
C-682 (890-1333-12)	9/29/21	13 42	Solid		X	X	X							
C-683 (890-1333-13)	9/29/21	13 43	Solid		X	X	X							
C-684 (890-1333-14)	9/29/21	13 44	Solid		X	X	X							
C-685 (890-1333-15)	9/29/21	13 45	Solid		X	X	X							
C-677 (890-1333-16)	9/29/21	13 37	Solid		X	X	X							
C-686 (890-1333-17)	9/29/21	13 46	Solid		X	X	X							
C-687 (890-1333-18)	9/29/21	13 47	Solid		X	X	X							

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analytes/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2

Empty Kit Relinquished by Date Time

Relinquished by Date/Time Company

Relinquished by Date/Time Company

Relinquished by Date/Time Company

Custody Seals Intact Custody Seal No

Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks: 2.2, 12.7

Ver: 06/08/2021

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins
Environment Testing
America

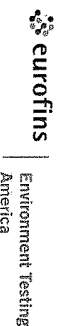
Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier/Tracking No(s)	COC No
Client Contact: Phone:		Taylor, Holly			890-436 3
Shipping/Receiving		E-Mail: holly.taylor@eurofinset.com	State of Origin: New Mexico	Page 3 of 6	
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1333-1	
Address: 1211 W Florida Ave		Due Date Requested: 10/5/2021			
City: Midland		TAT Requested (days):			
State Zip: TX 79701					
Phone: 432-704-5440(Tel)		PO #:			
Email:		WO #:			
Project Name: Palmco ast		Project #: 89000025			
Site:		SSOW#:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weirater, Solid, Or-wastwater, BI-Tissue Anal)
C-688 (890-1333-19)		9/29/21	13 48		Solid
C-689 (890-1333-20)		9/29/21	13 49		Solid
C-690 (890-1333-21)		9/29/21	13 50		Solid
C-691 (890-1333-22)		9/29/21	13 51		Solid
C-692 (890-1333-23)		9/29/21	13 52		Solid
C-693 (890-1333-24)		9/29/21	13 53		Solid
C-694 (890-1333-25)		9/29/21	13 54		Solid
C-695 (890-1333-26)		9/29/21	13 55		Solid
C-696 (890-1333-27)		9/29/21	13 56		Solid
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank 2		Special Instructions/QC Requirements	
Empty Kit Relinquished by		Date	Time	Method of Shipment	
Relinquished by		Date/Time	Company	Received by	
Relinquished by		Date/Time	Company	Received by	
Relinquished by		Date/Time	Company	Received by	
Custody Seals Intact: A Yes A No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:	

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Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No.									
Client Contact:		Phone	Taylor, Holly		890-436 4									
Shipping/Receiving		E-Mail	taylor@eurofins.com	State of Origin:	Page 4 of 6									
Company		Accreditations Required (See note)		New Mexico										
Eurofins Xenco		NELAP - Louisiana, NELAP - Texas												
Address		Due Date Requested	Analysis Requested											
1211 W Florida Ave		10/5/2021												
City		TAT Requested (day/s):												
Midland														
State Zip:														
TX 79701														
Phone:		PO #:												
432-704-5440(Tel)														
Email		WO #:												
Project Name:		Project #:												
Palmito ast		89000025												
Site		SSOW#:												
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab, B=Trisuc, A=Air)	Matrix (W=water, S=solid, O=oil, B=Trisuc, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8016NM_S_Prep (MOD) Full TPH		300_ORGFM_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX - LL	Total Number of containers		Special Instructions/Note:
C-697 (890-1333-28)		9/29/21	13 57	Mountain	Solid	X	X	X					1	
C-698 (890-1333-29)		9/29/21	13 58	Mountain	Solid	X	X	X					1	
C-699 (890-1333-30)		9/29/21	13 59	Mountain	Solid	X	X	X					1	
C-700 (890-1333-31)		9/29/21	14 00	Mountain	Solid	X	X	X					1	
C-701 (890-1333-32)		9/29/21	14 01	Mountain	Solid	X	X	X					1	
C-702 (890-1333-33)		9/29/21	14 02	Mountain	Solid	X	X	X					1	
C-703 (890-1333-34)		9/29/21	14 03	Mountain	Solid	X	X	X					1	
C-704 (890-1333-35)		9/29/21	14 04	Mountain	Solid	X	X	X					1	
C-705 (890-1333-36)		9/29/21	14 05	Mountain	Solid	X	X	X					1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analytes/methods being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I II III IV Other (specify)														
Primary Deliverable Rank 2														
Special Instructions/QC Requirements														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months														
Empty Kit Relinquished by:														
Date/Time														
Company														
Relinquished by:														
Date/Time														
Company														
Relinquished by:														
Date/Time														
Company														
Custody Seals Intact:														
Cooler Temperature(s) °C and Other Remarks:														
Ver 06/08/2021														

Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s):	COC No							
Client Contact:	Phone	Taylor Holly			890-436 5							
Shipping/Receiving	E-Mail	holly.taylor@eurofinsnet.com	State of Origin	Page:	Page 5 of 6							
Company	Accreditations Required (See note):	NE LAP - Louisiana NE LAP - Texas		Job #:	890-1333-1							
Address	Due Date Requested	10/5/2021	Analysis Requested									
City	TAT Requested (days):											
Midland												
State, Zip												
TX 79701												
Phone:	PO #:											
432-704-5440(Tel)	WO #:											
Email	Project #	89000025										
Project Name	SSOW#											
Palmto ast												
Site												
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab, ST=Tissue, A=Air)	Matrix (W=water, S=solid, O=wastefl, ST=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH	300_ORGFWM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX - LL	Total Number of containers	Special Instructions/Note:
C-706 (890-1333-37)	9/29/21	14 06		Solid		X	X	X	X			
C-707 (890-1333-38)	9/29/21	14 07		Solid		X	X	X	X			
C-708 (890-1333-39)	9/29/21	14 08		Solid		X	X	X	X			
C-709 (890-1333-40)	9/29/21	14 09		Solid		X	X	X	X			
C-710 (890-1333-41)	9/29/21	14 10		Solid		X	X	X	X			
C-711 (890-1333-42)	9/29/21	14 11		Solid		X	X	X	X			
C-712 (890-1333-43)	9/29/21	14 12		Solid		X	X	X	X			
C-713 (890-1333-44)	9/29/21	14 13		Solid		X	X	X	X			
C-714 (890-1333-45)	9/29/21	14 14		Solid		X	X	X	X			
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.												
Possible Hazard Identification												
Unconfirmed												
Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank 2 Special Instructions/QC Requirements												
Empty Kit Relinquished by Date Time Method of Shipment:												
Relinquished by Date/Time Company Received by Date/Time Company												
Relinquished by Date/Time Company Received by Date/Time Company												
Relinquished by Date/Time Company Received by Date/Time Company												
Custody Seals Intact: Custody Seal No Cooler Temperature(s) °C and Other Remarks: 2.2 12.7												

Ver 06/08/2021

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Eurofins Xenco, Carlshad

1089 N Canal St
Carlshad NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:
Client Contact:	Phone:	Taylor Holly			890-436 6
Shipping/Receiving	E-Mail:	holly.taylor@eurofinsnet.com	State of Origin		Page 6 of 6
Company:	Accreditations Required (See note):	NELAP - Louisiana, NELAP - Texas		Job #:	890-1333-1
Eurofins Xenco					
Address	Due Date Requested			Preservation Codes	
1211 W Florida Ave	10/5/2021			A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2OAS E NaHSO4 Q - Na2SO3 F - MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecalhydrate I Ice U Acetone J DI Water V - MCAA K - EDTA W pH 4-5 L EDA Z other (specify)	
City:	TAT Requested (days):			Other:	
Midland					
State Zip:	PO #				
TX 79701					
Phone	WO #				
432-704-5440(Tel)					
Email	Project #:				
	89000025				
Project Name:	SSOW#				
Palmito ast					
Site					
Sample Identification - Client ID (Lab ID)					
C-715 (890-1333-46)	9/29/21	14 15	Solid	X	X
C-716 (890-1333-47)	9/29/21	14 16	Solid	X	X
C-613 (890-1333-48)	9/29/21	09 00	Solid	X	X
C-724 1' (890-1333-49)	9/29/21	09 50	Solid	X	X
C-834 1' (890-1333-50)	9/29/21	09 30	Solid	X	X
C-162 4 1' (890-1333-51)	9/29/21	10 15	Solid	X	X
C-200 4 1' (890-1333-52)	9/29/21	10 45	Solid	X	X
C-201 4 1' (890-1333-53)	9/29/21	11 00	Solid	X	X
Analysis Requested					
Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH 300_ORGFMM_28D/DI_LEACH Chloride 8021B/5035FP_Calc (MOD) BTEX - LL					
Total Number of containers					
Special Instructions/Note:					
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analytists/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification Unconfirmed Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Empty Kit Relinquished by					
Relinquished by	Date/Time	Company	Time	Method of Shipment:	
Relinquished by	Date/Time	Company	Time	Received by	Date/Time
Relinquished by	Date/Time	Company	Time	Received by	Date/Time
Custody Seals Intact:	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:			
Δ Yes Δ No		2:21:27			

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1333-1

SDG Number: 21-0105-02

Login Number: 1333

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	False	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1333-1

SDG Number: 21-0105-02

Login Number: 1333

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 09/30/21 11:09 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2 / 2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1344-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/11/2021 1:39:10 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1344-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Job ID: 890-1344-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1344-1****Comments**

No additional comments.

Receipt

The samples were received on 9/30/2021 3:22 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 13.0° C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-717 (890-1344-1), C-718 (890-1344-2), C-719 (890-1344-3), C-720 (890-1344-4), C-721 (890-1344-5), C-723 (890-1344-7) and C-724 (890-1344-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-727 (890-1344-11), C-729 (890-1344-13), C-730 (890-1344-14), C-732 (890-1344-16) and C-733 (890-1344-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: C-779 (890-1344-63). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: C-747 (890-1344-31) and C-748 (890-1344-32). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (MB 880-8856/1-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: C-757 (890-1344-41), C-769 (890-1344-53) and C-775 (890-1344-59). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (880-6735-A-42-B). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-8731 and analytical batch 880-8851 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-717

Lab Sample ID: 890-1344-1

Date Collected: 09/30/21 09:17

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 12:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 12:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 12:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/04/21 13:40	10/06/21 12:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 12:26	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/21 13:40	10/06/21 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	10/04/21 13:40	10/06/21 12:26	1
1,4-Difluorobenzene (Surr)	111		70 - 130	10/04/21 13:40	10/06/21 12:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/04/21 22:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/04/21 22:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/04/21 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	10/04/21 14:28	10/04/21 22:31	1
o-Terphenyl	107		70 - 130	10/04/21 14:28	10/04/21 22:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281		5.01	mg/Kg			10/04/21 19:19	1

Client Sample ID: C-718

Lab Sample ID: 890-1344-2

Date Collected: 09/30/21 09:18

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:40	10/06/21 12:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:40	10/06/21 12:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:40	10/06/21 12:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/04/21 13:40	10/06/21 12:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:40	10/06/21 12:52	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/04/21 13:40	10/06/21 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	10/04/21 13:40	10/06/21 12:52	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/04/21 13:40	10/06/21 12:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-718

Lab Sample ID: 890-1344-2

Date Collected: 09/30/21 09:18

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/04/21 23:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/04/21 23:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/04/21 23:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/04/21 14:28	10/04/21 23:33	1
o-Terphenyl	105		70 - 130			10/04/21 14:28	10/04/21 23:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	513		4.97	mg/Kg			10/04/21 23:20	1

Client Sample ID: C-719

Lab Sample ID: 890-1344-3

Date Collected: 09/30/21 09:19

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 13:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 13:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 13:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:40	10/06/21 13:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 13:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:40	10/06/21 13:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			10/04/21 13:40	10/06/21 13:18	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/04/21 13:40	10/06/21 13:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/04/21 23:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/04/21 23:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-719

Lab Sample ID: 890-1344-3

Date Collected: 09/30/21 09:19

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/04/21 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			10/04/21 14:28	10/04/21 23:53	1
o-Terphenyl	106		70 - 130			10/04/21 14:28	10/04/21 23:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	227		4.95	mg/Kg			10/04/21 23:26	1

Client Sample ID: C-720

Lab Sample ID: 890-1344-4

Date Collected: 09/30/21 09:20

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 13:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 13:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/04/21 13:40	10/06/21 13:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 13:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:40	10/06/21 13:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			10/04/21 13:40	10/06/21 13:44	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/04/21 13:40	10/06/21 13:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 00:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 00:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/04/21 14:28	10/05/21 00:13	1
o-Terphenyl	105		70 - 130			10/04/21 14:28	10/05/21 00:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	469		4.98	mg/Kg			10/04/21 23:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-721

Lab Sample ID: 890-1344-5

Date Collected: 09/30/21 09:21

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:40	10/06/21 14:11	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:40	10/06/21 14:11	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:40	10/06/21 14:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/04/21 13:40	10/06/21 14:11	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:40	10/06/21 14:11	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:40	10/06/21 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	184	S1+	70 - 130	10/04/21 13:40	10/06/21 14:11	1
1,4-Difluorobenzene (Surr)	116		70 - 130	10/04/21 13:40	10/06/21 14:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/05/21 00:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/05/21 00:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/05/21 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	10/04/21 14:28	10/05/21 00:33	1
o-Terphenyl	109		70 - 130	10/04/21 14:28	10/05/21 00:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1470		4.95	mg/Kg			10/04/21 23:37	1

Client Sample ID: C-722

Lab Sample ID: 890-1344-6

Date Collected: 09/30/21 09:22

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 14:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 14:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 14:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/04/21 13:40	10/06/21 14:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 14:38	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/21 13:40	10/06/21 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/04/21 13:40	10/06/21 14:38	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/04/21 13:40	10/06/21 14:38	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-722

Lab Sample ID: 890-1344-6

Date Collected: 09/30/21 09:22

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 00:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 00:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 00:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/04/21 14:28	10/05/21 00:53	1
o-Terphenyl	104		70 - 130			10/04/21 14:28	10/05/21 00:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	754		5.04	mg/Kg			10/04/21 23:43	1

Client Sample ID: C-723

Lab Sample ID: 890-1344-7

Date Collected: 09/30/21 09:23

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 15:04	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 15:04	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 15:04	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/04/21 13:40	10/06/21 15:04	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 15:04	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/04/21 13:40	10/06/21 15:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			10/04/21 13:40	10/06/21 15:04	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/04/21 13:40	10/06/21 15:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 01:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 01:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-723

Lab Sample ID: 890-1344-7

Date Collected: 09/30/21 09:23

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 01:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/04/21 14:28	10/05/21 01:13	1
o-Terphenyl	98		70 - 130			10/04/21 14:28	10/05/21 01:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.3		5.01	mg/Kg			10/04/21 23:48	1

Client Sample ID: C.724

Lab Sample ID: 890-1344-8

Date Collected: 09/30/21 09:24

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 15:30	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 15:30	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 15:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/04/21 13:40	10/06/21 15:30	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 15:30	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:40	10/06/21 15:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130			10/04/21 13:40	10/06/21 15:30	1
1,4-Difluorobenzene (Surr)	108		70 - 130			10/04/21 13:40	10/06/21 15:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 01:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 01:33	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 01:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/04/21 14:28	10/05/21 01:33	1
o-Terphenyl	104		70 - 130			10/04/21 14:28	10/05/21 01:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	309		4.99	mg/Kg			10/04/21 23:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C.725

Lab Sample ID: 890-1344-9

Date Collected: 09/30/21 09:25

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 17:16	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 17:16	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 17:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/04/21 13:40	10/06/21 17:16	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 17:16	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:40	10/06/21 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/04/21 13:40	10/06/21 17:16	1
1,4-Difluorobenzene (Surr)	76		70 - 130	10/04/21 13:40	10/06/21 17:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 01:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 01:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	10/04/21 14:28	10/05/21 01:53	1
o-Terphenyl	103		70 - 130	10/04/21 14:28	10/05/21 01:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	695		4.95	mg/Kg			10/05/21 09:01	1

Client Sample ID: C.726

Lab Sample ID: 890-1344-10

Date Collected: 09/30/21 09:26

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 17:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 17:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 17:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/04/21 13:40	10/06/21 17:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 17:43	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:40	10/06/21 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	10/04/21 13:40	10/06/21 17:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/04/21 13:40	10/06/21 17:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C.726

Lab Sample ID: 890-1344-10

Date Collected: 09/30/21 09:26

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 02:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 02:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 02:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			10/04/21 14:28	10/05/21 02:13	1
o-Terphenyl	108		70 - 130			10/04/21 14:28	10/05/21 02:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1290		4.97	mg/Kg			10/05/21 09:07	1

Client Sample ID: C.727

Lab Sample ID: 890-1344-11

Date Collected: 09/30/21 09:27

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 18:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 18:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 18:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:40	10/06/21 18:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 18:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:40	10/06/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			10/04/21 13:40	10/06/21 18:09	1
1,4-Difluorobenzene (Surr)	111		70 - 130			10/04/21 13:40	10/06/21 18:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 02:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 02:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C.727

Lab Sample ID: 890-1344-11

Date Collected: 09/30/21 09:27

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 02:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			10/04/21 14:28	10/05/21 02:53	1
o-Terphenyl	107		70 - 130			10/04/21 14:28	10/05/21 02:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540		25.0	mg/Kg			10/05/21 09:26	5

Client Sample ID: C.728

Lab Sample ID: 890-1344-12

Date Collected: 09/30/21 09:28

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 18:36	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 18:36	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 18:36	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/04/21 13:40	10/06/21 18:36	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:40	10/06/21 18:36	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/04/21 13:40	10/06/21 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			10/04/21 13:40	10/06/21 18:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/04/21 13:40	10/06/21 18:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/05/21 03:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/05/21 03:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/05/21 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/04/21 14:28	10/05/21 03:13	1
o-Terphenyl	104		70 - 130			10/04/21 14:28	10/05/21 03:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		4.98	mg/Kg			10/05/21 09:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C.729

Lab Sample ID: 890-1344-13

Date Collected: 09/30/21 09:29

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 19:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 19:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 19:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:40	10/06/21 19:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 19:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:40	10/06/21 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	10/04/21 13:40	10/06/21 19:02	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/04/21 13:40	10/06/21 19:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 03:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 03:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	10/04/21 14:28	10/05/21 03:33	1
o-Terphenyl	101		70 - 130	10/04/21 14:28	10/05/21 03:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		5.00	mg/Kg			10/05/21 09:39	1

Client Sample ID: C.730

Lab Sample ID: 890-1344-14

Date Collected: 09/30/21 09:30

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 19:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 19:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 19:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/04/21 13:40	10/06/21 19:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 19:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:40	10/06/21 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	10/04/21 13:40	10/06/21 19:29	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/04/21 13:40	10/06/21 19:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C.730

Lab Sample ID: 890-1344-14

Date Collected: 09/30/21 09:30

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 03:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 03:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 03:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/04/21 14:28	10/05/21 03:53	1
o-Terphenyl	101		70 - 130			10/04/21 14:28	10/05/21 03:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	777		5.00	mg/Kg			10/05/21 09:45	1

Client Sample ID: C.731

Lab Sample ID: 890-1344-15

Date Collected: 09/30/21 09:31

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 19:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 19:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 19:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/04/21 13:40	10/06/21 19:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 19:55	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:40	10/06/21 19:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			10/04/21 13:40	10/06/21 19:55	1
1,4-Difluorobenzene (Surr)	87		70 - 130			10/04/21 13:40	10/06/21 19:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/05/21 04:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/05/21 04:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C.731

Lab Sample ID: 890-1344-15

Date Collected: 09/30/21 09:31

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/05/21 04:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/04/21 14:28	10/05/21 04:13	1
o-Terphenyl	104		70 - 130			10/04/21 14:28	10/05/21 04:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		4.98	mg/Kg			10/05/21 13:46	1

Client Sample ID: C-732

Lab Sample ID: 890-1344-16

Date Collected: 09/30/21 09:32

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:40	10/06/21 20:22	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:40	10/06/21 20:22	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:40	10/06/21 20:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/04/21 13:40	10/06/21 20:22	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:40	10/06/21 20:22	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:40	10/06/21 20:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130			10/04/21 13:40	10/06/21 20:22	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/04/21 13:40	10/06/21 20:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 04:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 04:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 04:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/04/21 14:28	10/05/21 04:33	1
o-Terphenyl	105		70 - 130			10/04/21 14:28	10/05/21 04:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370		4.95	mg/Kg			10/05/21 13:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-733

Lab Sample ID: 890-1344-17

Date Collected: 09/30/21 09:33

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 20:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 20:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 20:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:40	10/06/21 20:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 20:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:40	10/06/21 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	10/04/21 13:40	10/06/21 20:48	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/04/21 13:40	10/06/21 20:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 04:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 04:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:28	10/05/21 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	10/04/21 14:28	10/05/21 04:54	1
o-Terphenyl	103		70 - 130	10/04/21 14:28	10/05/21 04:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	598		4.97	mg/Kg			10/05/21 13:59	1

Client Sample ID: C-734

Lab Sample ID: 890-1344-18

Date Collected: 09/30/21 09:34

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 21:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 21:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 21:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:40	10/06/21 21:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:40	10/06/21 21:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:40	10/06/21 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	10/04/21 13:40	10/06/21 21:15	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/04/21 13:40	10/06/21 21:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-734

Lab Sample ID: 890-1344-18

Date Collected: 09/30/21 09:34

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/21 08:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 05:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 05:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 05:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/04/21 14:28	10/05/21 05:14	1
o-Terphenyl	106		70 - 130			10/04/21 14:28	10/05/21 05:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		4.99	mg/Kg			10/05/21 14:18	1

Client Sample ID: C-735

Lab Sample ID: 890-1344-19

Date Collected: 09/30/21 09:35

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198	mg/Kg		10/04/21 13:51	10/06/21 12:58	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 12:58	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 12:58	1
m-Xylene & p-Xylene	<0.00396	U F1	0.00396	mg/Kg		10/04/21 13:51	10/06/21 12:58	1
o-Xylene	<0.00198	U F1	0.00198	mg/Kg		10/04/21 13:51	10/06/21 12:58	1
Xylenes, Total	<0.00396	U F1	0.00396	mg/Kg		10/04/21 13:51	10/06/21 12:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			10/04/21 13:51	10/06/21 12:58	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/04/21 13:51	10/06/21 12:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 05:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 05:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-735

Lab Sample ID: 890-1344-19

Date Collected: 09/30/21 09:35

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:28	10/05/21 05:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/04/21 14:28	10/05/21 05:34	1
o-Terphenyl	99		70 - 130			10/04/21 14:28	10/05/21 05:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		4.98	mg/Kg			10/05/21 17:08	1

Client Sample ID: C-736

Lab Sample ID: 890-1344-20

Date Collected: 09/30/21 09:36

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 13:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 13:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 13:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 13:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 13:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 13:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			10/04/21 13:51	10/06/21 13:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130			10/04/21 13:51	10/06/21 13:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/05/21 05:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/05/21 05:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/05/21 05:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/04/21 14:28	10/05/21 05:55	1
o-Terphenyl	110		70 - 130			10/04/21 14:28	10/05/21 05:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	545		5.00	mg/Kg			10/05/21 14:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-737

Lab Sample ID: 890-1344-21

Date Collected: 09/30/21 09:37

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 13:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 13:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 13:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 13:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 13:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/04/21 13:51	10/06/21 13:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130	10/04/21 13:51	10/06/21 13:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 11:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 11:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	10/04/21 14:50	10/05/21 11:31	1
o-Terphenyl	122		70 - 130	10/04/21 14:50	10/05/21 11:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	374		5.00	mg/Kg			10/05/21 14:37	1

Client Sample ID: C-738

Lab Sample ID: 890-1344-22

Date Collected: 09/30/21 09:38

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 14:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 14:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 14:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 14:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 14:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/04/21 13:51	10/06/21 14:00	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/04/21 13:51	10/06/21 14:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-738

Lab Sample ID: 890-1344-22

Date Collected: 09/30/21 09:38

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 12:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 12:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 12:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			10/04/21 14:50	10/05/21 12:36	1
o-Terphenyl	124		70 - 130			10/04/21 14:50	10/05/21 12:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	296		4.98	mg/Kg			10/05/21 14:43	1

Client Sample ID: C-739

Lab Sample ID: 890-1344-23

Date Collected: 09/30/21 09:39

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 14:21	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 14:21	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 14:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/04/21 13:51	10/06/21 14:21	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 14:21	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:51	10/06/21 14:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/04/21 13:51	10/06/21 14:21	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/04/21 13:51	10/06/21 14:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 12:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 12:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-739

Lab Sample ID: 890-1344-23

Date Collected: 09/30/21 09:39

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 12:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/04/21 14:50	10/05/21 12:58	1
o-Terphenyl	123		70 - 130			10/04/21 14:50	10/05/21 12:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		4.99	mg/Kg			10/05/21 14:49	1

Client Sample ID: C-740

Lab Sample ID: 890-1344-24

Date Collected: 09/30/21 09:40

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 14:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 14:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 14:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/04/21 13:51	10/06/21 14:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 14:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:51	10/06/21 14:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			10/04/21 13:51	10/06/21 14:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/04/21 13:51	10/06/21 14:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 13:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 13:19	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 13:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			10/04/21 14:50	10/05/21 13:19	1
o-Terphenyl	127		70 - 130			10/04/21 14:50	10/05/21 13:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	451		25.3	mg/Kg			10/05/21 18:23	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-741

Lab Sample ID: 890-1344-25

Date Collected: 09/30/21 09:41

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 15:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 15:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 15:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/04/21 13:51	10/06/21 15:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 15:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:51	10/06/21 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/04/21 13:51	10/06/21 15:03	1
1,4-Difluorobenzene (Surr)	95		70 - 130	10/04/21 13:51	10/06/21 15:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 13:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 13:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	10/04/21 14:50	10/05/21 13:41	1
o-Terphenyl	123		70 - 130	10/04/21 14:50	10/05/21 13:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	828		5.01	mg/Kg			10/05/21 16:11	1

Client Sample ID: C-742

Lab Sample ID: 890-1344-26

Date Collected: 09/30/21 09:42

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 15:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 15:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 15:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/04/21 13:51	10/06/21 15:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 15:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/21 13:51	10/06/21 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	10/04/21 13:51	10/06/21 15:24	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/04/21 13:51	10/06/21 15:24	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-742

Lab Sample ID: 890-1344-26

Date Collected: 09/30/21 09:42

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 14:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 14:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/04/21 14:50	10/05/21 14:03	1
o-Terphenyl	121		70 - 130			10/04/21 14:50	10/05/21 14:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	508		4.97	mg/Kg			10/05/21 15:08	1

Client Sample ID: C-743

Lab Sample ID: 890-1344-27

Date Collected: 09/30/21 09:43

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:51	10/06/21 15:45	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:51	10/06/21 15:45	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:51	10/06/21 15:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/04/21 13:51	10/06/21 15:45	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:51	10/06/21 15:45	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/04/21 13:51	10/06/21 15:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			10/04/21 13:51	10/06/21 15:45	1
1,4-Difluorobenzene (Surr)	112		70 - 130			10/04/21 13:51	10/06/21 15:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 14:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 14:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-743

Lab Sample ID: 890-1344-27

Date Collected: 09/30/21 09:43

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 14:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/04/21 14:50	10/05/21 14:25	1
o-Terphenyl	119		70 - 130			10/04/21 14:50	10/05/21 14:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	802		4.95	mg/Kg			10/05/21 15:14	1

Client Sample ID: C-744

Lab Sample ID: 890-1344-28

Date Collected: 09/30/21 09:44

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 16:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 16:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 16:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/04/21 13:51	10/06/21 16:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 16:05	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/21 13:51	10/06/21 16:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/04/21 13:51	10/06/21 16:05	1
1,4-Difluorobenzene (Surr)	80		70 - 130			10/04/21 13:51	10/06/21 16:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 14:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 14:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/04/21 14:50	10/05/21 14:47	1
o-Terphenyl	121		70 - 130			10/04/21 14:50	10/05/21 14:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	655		4.98	mg/Kg			10/05/21 15:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-745

Lab Sample ID: 890-1344-29

Date Collected: 09/30/21 09:45

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:51	10/06/21 17:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:51	10/06/21 17:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:51	10/06/21 17:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/04/21 13:51	10/06/21 17:28	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:51	10/06/21 17:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:51	10/06/21 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/04/21 13:51	10/06/21 17:28	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/04/21 13:51	10/06/21 17:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 15:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 15:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	10/04/21 14:50	10/05/21 15:08	1
o-Terphenyl	125		70 - 130	10/04/21 14:50	10/05/21 15:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	428		4.95	mg/Kg			10/05/21 15:39	1

Client Sample ID: C-746

Lab Sample ID: 890-1344-30

Date Collected: 09/30/21 09:46

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 17:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 17:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 17:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 17:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 17:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/04/21 13:51	10/06/21 17:49	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/04/21 13:51	10/06/21 17:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-746

Lab Sample ID: 890-1344-30

Date Collected: 09/30/21 09:46

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 15:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 15:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 15:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/04/21 14:50	10/05/21 15:30	1
o-Terphenyl	125		70 - 130			10/04/21 14:50	10/05/21 15:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	601		5.04	mg/Kg			10/05/21 15:46	1

Client Sample ID: C-747

Lab Sample ID: 890-1344-31

Date Collected: 09/30/21 09:47

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 18:10	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 18:10	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 18:10	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/04/21 13:51	10/06/21 18:10	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 18:10	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/04/21 13:51	10/06/21 18:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/04/21 13:51	10/06/21 18:10	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/04/21 13:51	10/06/21 18:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 16:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 16:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-747

Lab Sample ID: 890-1344-31

Date Collected: 09/30/21 09:47

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			10/04/21 14:50	10/05/21 16:13	1
o-Terphenyl	133	S1+	70 - 130			10/04/21 14:50	10/05/21 16:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	307		5.01	mg/Kg			10/05/21 17:14	1

Client Sample ID: C-748

Lab Sample ID: 890-1344-32

Date Collected: 09/30/21 09:48

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 18:31	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 18:31	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 18:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/04/21 13:51	10/06/21 18:31	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:51	10/06/21 18:31	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:51	10/06/21 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			10/04/21 13:51	10/06/21 18:31	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/04/21 13:51	10/06/21 18:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 16:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 16:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			10/04/21 14:50	10/05/21 16:35	1
o-Terphenyl	132	S1+	70 - 130			10/04/21 14:50	10/05/21 16:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	620		4.99	mg/Kg			10/05/21 15:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-749

Lab Sample ID: 890-1344-33

Date Collected: 09/30/21 09:59

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 18:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 18:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 18:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 18:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 18:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/04/21 13:51	10/06/21 18:51	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/04/21 13:51	10/06/21 18:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 16:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 16:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	10/04/21 14:50	10/05/21 16:56	1
o-Terphenyl	119		70 - 130	10/04/21 14:50	10/05/21 16:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	324		25.3	mg/Kg			10/09/21 00:04	5

Client Sample ID: C-750

Lab Sample ID: 890-1344-34

Date Collected: 09/30/21 09:50

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 19:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 19:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 19:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 19:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 19:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	10/04/21 13:51	10/06/21 19:12	1
1,4-Difluorobenzene (Surr)	114		70 - 130	10/04/21 13:51	10/06/21 19:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-750

Lab Sample ID: 890-1344-34

Date Collected: 09/30/21 09:50

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 17:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 17:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 17:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/04/21 14:50	10/05/21 17:18	1
o-Terphenyl	119		70 - 130			10/04/21 14:50	10/05/21 17:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158		4.99	mg/Kg			10/09/21 00:21	1

Client Sample ID: C-751

Lab Sample ID: 890-1344-35

Date Collected: 09/30/21 09:52

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 19:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 19:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 19:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/04/21 13:51	10/06/21 19:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 19:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:51	10/06/21 19:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/04/21 13:51	10/06/21 19:33	1
1,4-Difluorobenzene (Surr)	110		70 - 130			10/04/21 13:51	10/06/21 19:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 17:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 17:40	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-751

Lab Sample ID: 890-1344-35

Date Collected: 09/30/21 09:52

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 17:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/04/21 14:50	10/05/21 17:40	1
o-Terphenyl	118		70 - 130			10/04/21 14:50	10/05/21 17:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	272		4.95	mg/Kg			10/09/21 00:27	1

Client Sample ID: C-752

Lab Sample ID: 890-1344-36

Date Collected: 09/30/21 09:52

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:51	10/06/21 19:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:51	10/06/21 19:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:51	10/06/21 19:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/04/21 13:51	10/06/21 19:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:51	10/06/21 19:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:51	10/06/21 19:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/04/21 13:51	10/06/21 19:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/04/21 13:51	10/06/21 19:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 18:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 18:01	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 18:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/04/21 14:50	10/05/21 18:01	1
o-Terphenyl	117		70 - 130			10/04/21 14:50	10/05/21 18:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.0		5.03	mg/Kg			10/09/21 00:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-753

Lab Sample ID: 890-1344-37

Date Collected: 09/30/21 09:53

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 20:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 20:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 20:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 20:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:51	10/06/21 20:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:51	10/06/21 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/04/21 13:51	10/06/21 20:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/04/21 13:51	10/06/21 20:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 18:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 18:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 14:50	10/05/21 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	10/04/21 14:50	10/05/21 18:22	1
o-Terphenyl	120		70 - 130	10/04/21 14:50	10/05/21 18:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.04	mg/Kg			10/09/21 00:38	1

Client Sample ID: C-754

Lab Sample ID: 890-1344-38

Date Collected: 09/30/21 09:54

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:51	10/06/21 20:35	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:51	10/06/21 20:35	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:51	10/06/21 20:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/04/21 13:51	10/06/21 20:35	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:51	10/06/21 20:35	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/04/21 13:51	10/06/21 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	10/04/21 13:51	10/06/21 20:35	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/04/21 13:51	10/06/21 20:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-754

Lab Sample ID: 890-1344-38

Date Collected: 09/30/21 09:54

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/06/21 15:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 18:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 18:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 18:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/04/21 14:50	10/05/21 18:42	1
o-Terphenyl	119		70 - 130			10/04/21 14:50	10/05/21 18:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.05	mg/Kg			10/09/21 00:55	1

Client Sample ID: C-755

Lab Sample ID: 890-1344-39

Date Collected: 09/30/21 09:55

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 18:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 18:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 18:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/04/21 13:53	10/08/21 18:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 18:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:53	10/08/21 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			10/04/21 13:53	10/08/21 18:14	1
1,4-Difluorobenzene (Surr)	81		70 - 130			10/04/21 13:53	10/08/21 18:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 19:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 19:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-755

Lab Sample ID: 890-1344-39

Date Collected: 09/30/21 09:55

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 14:50	10/05/21 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			10/04/21 14:50	10/05/21 19:03	1
o-Terphenyl	124		70 - 130			10/04/21 14:50	10/05/21 19:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.1		5.01	mg/Kg			10/09/21 01:00	1

Client Sample ID: C-756

Lab Sample ID: 890-1344-40

Date Collected: 09/30/21 09:56

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 18:35	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 18:35	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 18:35	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/04/21 13:53	10/08/21 18:35	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 18:35	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:53	10/08/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			10/04/21 13:53	10/08/21 18:35	1
1,4-Difluorobenzene (Surr)	82		70 - 130			10/04/21 13:53	10/08/21 18:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 19:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 19:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/04/21 14:50	10/05/21 19:23	1
o-Terphenyl	123		70 - 130			10/04/21 14:50	10/05/21 19:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.1		5.02	mg/Kg			10/09/21 01:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-757

Lab Sample ID: 890-1344-41

Date Collected: 09/30/21 09:57

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 18:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 18:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 18:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:53	10/08/21 18:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 18:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:53	10/08/21 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	10/04/21 13:53	10/08/21 18:55	1
1,4-Difluorobenzene (Surr)	78		70 - 130	10/04/21 13:53	10/08/21 18:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 11:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 11:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	10/05/21 08:25	10/05/21 11:54	1
o-Terphenyl	132	S1+	70 - 130	10/05/21 08:25	10/05/21 11:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	388		5.01	mg/Kg			10/09/21 01:12	1

Client Sample ID: C-758

Lab Sample ID: 890-1344-42

Date Collected: 09/30/21 09:58

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 19:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 19:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 19:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:53	10/08/21 19:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 19:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:53	10/08/21 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	10/04/21 13:53	10/08/21 19:16	1
1,4-Difluorobenzene (Surr)	78		70 - 130	10/04/21 13:53	10/08/21 19:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-758

Lab Sample ID: 890-1344-42

Date Collected: 09/30/21 09:58

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 12:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 12:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/05/21 08:25	10/05/21 12:59	1
o-Terphenyl	118		70 - 130			10/05/21 08:25	10/05/21 12:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.1		4.99	mg/Kg			10/09/21 01:17	1

Client Sample ID: C-759

Lab Sample ID: 890-1344-43

Date Collected: 09/30/21 13:09

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 19:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 19:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 19:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:53	10/08/21 19:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 19:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:53	10/08/21 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			10/04/21 13:53	10/08/21 19:36	1
1,4-Difluorobenzene (Surr)	76		70 - 130			10/04/21 13:53	10/08/21 19:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 13:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 13:21	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-759

Lab Sample ID: 890-1344-43

Date Collected: 09/30/21 13:09

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 13:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/05/21 08:25	10/05/21 13:21	1
o-Terphenyl	118		70 - 130			10/05/21 08:25	10/05/21 13:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.2		4.97	mg/Kg			10/09/21 01:23	1

Client Sample ID: C-760

Lab Sample ID: 890-1344-44

Date Collected: 09/30/21 13:10

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 19:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 19:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 19:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/04/21 13:53	10/08/21 19:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 19:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:53	10/08/21 19:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			10/04/21 13:53	10/08/21 19:57	1
1,4-Difluorobenzene (Surr)	80		70 - 130			10/04/21 13:53	10/08/21 19:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 13:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 13:43	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 13:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			10/05/21 08:25	10/05/21 13:43	1
o-Terphenyl	127		70 - 130			10/05/21 08:25	10/05/21 13:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.7		4.95	mg/Kg			10/09/21 01:40	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-761

Lab Sample ID: 890-1344-45

Date Collected: 09/30/21 13:11

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 20:17	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 20:17	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 20:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/04/21 13:53	10/08/21 20:17	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 20:17	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:53	10/08/21 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	10/04/21 13:53	10/08/21 20:17	1
1,4-Difluorobenzene (Surr)	84		70 - 130	10/04/21 13:53	10/08/21 20:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 14:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	10/05/21 08:25	10/05/21 14:05	1
o-Terphenyl	125		70 - 130	10/05/21 08:25	10/05/21 14:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.7		4.97	mg/Kg			10/09/21 01:45	1

Client Sample ID: C-762

Lab Sample ID: 890-1344-46

Date Collected: 09/30/21 13:12

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 20:37	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 20:37	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 20:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/04/21 13:53	10/08/21 20:37	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 20:37	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/04/21 13:53	10/08/21 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	10/04/21 13:53	10/08/21 20:37	1
1,4-Difluorobenzene (Surr)	83		70 - 130	10/04/21 13:53	10/08/21 20:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-762

Lab Sample ID: 890-1344-46

Date Collected: 09/30/21 13:12

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 14:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 14:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 14:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			10/05/21 08:25	10/05/21 14:27	1
o-Terphenyl	129		70 - 130			10/05/21 08:25	10/05/21 14:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.8		4.95	mg/Kg			10/09/21 02:02	1

Client Sample ID: C-763

Lab Sample ID: 890-1344-47

Date Collected: 09/30/21 13:13

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 20:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 20:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 20:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:53	10/08/21 20:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/08/21 20:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:53	10/08/21 20:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			10/04/21 13:53	10/08/21 20:58	1
1,4-Difluorobenzene (Surr)	78		70 - 130			10/04/21 13:53	10/08/21 20:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 14:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 14:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-763

Lab Sample ID: 890-1344-47

Date Collected: 09/30/21 13:13

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/05/21 08:25	10/05/21 14:48	1
o-Terphenyl	119		70 - 130			10/05/21 08:25	10/05/21 14:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.2		5.00	mg/Kg			10/09/21 02:08	1

Client Sample ID: C-764

Lab Sample ID: 890-1344-48

Date Collected: 09/30/21 13:14

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:53	10/08/21 21:18	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:53	10/08/21 21:18	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:53	10/08/21 21:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/04/21 13:53	10/08/21 21:18	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:53	10/08/21 21:18	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:53	10/08/21 21:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			10/04/21 13:53	10/08/21 21:18	1
1,4-Difluorobenzene (Surr)	86		70 - 130			10/04/21 13:53	10/08/21 21:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 15:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 15:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			10/05/21 08:25	10/05/21 15:10	1
o-Terphenyl	130		70 - 130			10/05/21 08:25	10/05/21 15:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.2		5.00	mg/Kg			10/09/21 02:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-765

Lab Sample ID: 890-1344-49

Date Collected: 09/30/21 13:15

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:53	10/08/21 22:41	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:53	10/08/21 22:41	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:53	10/08/21 22:41	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/04/21 13:53	10/08/21 22:41	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:53	10/08/21 22:41	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/04/21 13:53	10/08/21 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	10/04/21 13:53	10/08/21 22:41	1
1,4-Difluorobenzene (Surr)	76		70 - 130	10/04/21 13:53	10/08/21 22:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 15:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 15:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	10/05/21 08:25	10/05/21 15:32	1
o-Terphenyl	115		70 - 130	10/05/21 08:25	10/05/21 15:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	632		4.99	mg/Kg			10/09/21 02:19	1

Client Sample ID: C-766

Lab Sample ID: 890-1344-50

Date Collected: 09/30/21 13:16

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 23:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 23:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 23:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/04/21 13:53	10/08/21 23:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 23:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:53	10/08/21 23:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	10/04/21 13:53	10/08/21 23:01	1
1,4-Difluorobenzene (Surr)	76		70 - 130	10/04/21 13:53	10/08/21 23:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-766

Lab Sample ID: 890-1344-50

Date Collected: 09/30/21 13:16

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 15:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 15:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 15:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/05/21 08:25	10/05/21 15:54	1
o-Terphenyl	123		70 - 130			10/05/21 08:25	10/05/21 15:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	551		5.00	mg/Kg			10/09/21 02:25	1

Client Sample ID: C-767

Lab Sample ID: 890-1344-51

Date Collected: 09/30/21 13:17

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 23:21	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 23:21	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 23:21	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/04/21 13:53	10/08/21 23:21	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 23:21	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/04/21 13:53	10/08/21 23:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			10/04/21 13:53	10/08/21 23:21	1
1,4-Difluorobenzene (Surr)	75		70 - 130			10/04/21 13:53	10/08/21 23:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 16:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 16:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-767

Lab Sample ID: 890-1344-51

Date Collected: 09/30/21 13:17

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/05/21 08:25	10/05/21 16:37	1
o-Terphenyl	119		70 - 130			10/05/21 08:25	10/05/21 16:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		5.00	mg/Kg			10/09/21 02:30	1

Client Sample ID: C-768

Lab Sample ID: 890-1344-52

Date Collected: 09/30/21 13:18

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 23:42	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 23:42	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 23:42	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/04/21 13:53	10/08/21 23:42	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/08/21 23:42	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:53	10/08/21 23:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130			10/04/21 13:53	10/08/21 23:42	1
1,4-Difluorobenzene (Surr)	77		70 - 130			10/04/21 13:53	10/08/21 23:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 16:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 16:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/05/21 08:25	10/05/21 16:59	1
o-Terphenyl	122		70 - 130			10/05/21 08:25	10/05/21 16:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.6		5.05	mg/Kg			10/09/21 02:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-769

Lab Sample ID: 890-1344-53

Date Collected: 09/30/21 13:19

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/09/21 00:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/09/21 00:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/09/21 00:02	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/04/21 13:53	10/09/21 00:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/09/21 00:02	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/04/21 13:53	10/09/21 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	10/04/21 13:53	10/09/21 00:02	1
1,4-Difluorobenzene (Surr)	76		70 - 130	10/04/21 13:53	10/09/21 00:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	10/05/21 08:25	10/05/21 17:20	1
o-Terphenyl	133	S1+	70 - 130	10/05/21 08:25	10/05/21 17:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.6		4.98	mg/Kg			10/05/21 09:09	1

Client Sample ID: C-770

Lab Sample ID: 890-1344-54

Date Collected: 09/30/21 13:20

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:53	10/09/21 00:23	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:53	10/09/21 00:23	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:53	10/09/21 00:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/04/21 13:53	10/09/21 00:23	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:53	10/09/21 00:23	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:53	10/09/21 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/04/21 13:53	10/09/21 00:23	1
1,4-Difluorobenzene (Surr)	83		70 - 130	10/04/21 13:53	10/09/21 00:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-770

Lab Sample ID: 890-1344-54

Date Collected: 09/30/21 13:20

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 17:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 17:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 17:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/05/21 08:25	10/05/21 17:42	1
o-Terphenyl	124		70 - 130			10/05/21 08:25	10/05/21 17:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.1		4.95	mg/Kg			10/05/21 09:15	1

Client Sample ID: C-771

Lab Sample ID: 890-1344-55

Date Collected: 09/30/21 13:21

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/09/21 00:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/09/21 00:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/09/21 00:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/21 13:53	10/09/21 00:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:53	10/09/21 00:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:53	10/09/21 00:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			10/04/21 13:53	10/09/21 00:43	1
1,4-Difluorobenzene (Surr)	74		70 - 130			10/04/21 13:53	10/09/21 00:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 18:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 18:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-771

Lab Sample ID: 890-1344-55

Date Collected: 09/30/21 13:21

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 18:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			10/05/21 08:25	10/05/21 18:04	1
o-Terphenyl	127		70 - 130			10/05/21 08:25	10/05/21 18:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.0		4.97	mg/Kg			10/05/21 09:20	1

Client Sample ID: C-772

Lab Sample ID: 890-1344-56

Date Collected: 09/30/21 13:22

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/09/21 01:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/09/21 01:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/09/21 01:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/04/21 13:53	10/09/21 01:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/09/21 01:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:53	10/09/21 01:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			10/04/21 13:53	10/09/21 01:03	1
1,4-Difluorobenzene (Surr)	79		70 - 130			10/04/21 13:53	10/09/21 01:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 18:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 18:25	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/05/21 08:25	10/05/21 18:25	1
o-Terphenyl	125		70 - 130			10/05/21 08:25	10/05/21 18:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.9		4.99	mg/Kg			10/05/21 09:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-773

Lab Sample ID: 890-1344-57

Date Collected: 09/30/21 13:23

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/09/21 01:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/09/21 01:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/09/21 01:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/04/21 13:53	10/09/21 01:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/09/21 01:24	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:53	10/09/21 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	10/04/21 13:53	10/09/21 01:24	1
1,4-Difluorobenzene (Surr)	56	S1-	70 - 130	10/04/21 13:53	10/09/21 01:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 18:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 18:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 08:25	10/05/21 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	10/05/21 08:25	10/05/21 18:46	1
o-Terphenyl	124		70 - 130	10/05/21 08:25	10/05/21 18:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.8		4.98	mg/Kg			10/05/21 10:00	1

Client Sample ID: C-774

Lab Sample ID: 890-1344-58

Date Collected: 09/30/21 13:24

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/09/21 01:44	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/09/21 01:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/09/21 01:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/04/21 13:53	10/09/21 01:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:53	10/09/21 01:44	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:53	10/09/21 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	10/04/21 13:53	10/09/21 01:44	1
1,4-Difluorobenzene (Surr)	71		70 - 130	10/04/21 13:53	10/09/21 01:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-774

Lab Sample ID: 890-1344-58

Date Collected: 09/30/21 13:24

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 19:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 19:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 19:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			10/05/21 08:25	10/05/21 19:08	1
o-Terphenyl	118		70 - 130			10/05/21 08:25	10/05/21 19:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.8		5.00	mg/Kg			10/05/21 10:05	1

Client Sample ID: C-775

Lab Sample ID: 890-1344-59

Date Collected: 09/30/21 13:25

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/06/21 10:57	10/09/21 22:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/06/21 10:57	10/09/21 22:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/06/21 10:57	10/09/21 22:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/06/21 10:57	10/09/21 22:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/06/21 10:57	10/09/21 22:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/06/21 10:57	10/09/21 22:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			10/06/21 10:57	10/09/21 22:09	1
1,4-Difluorobenzene (Surr)	76		70 - 130			10/06/21 10:57	10/09/21 22:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 19:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 19:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-775

Lab Sample ID: 890-1344-59

Date Collected: 09/30/21 13:25

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 08:25	10/05/21 19:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			10/05/21 08:25	10/05/21 19:29	1
o-Terphenyl	134	S1+	70 - 130			10/05/21 08:25	10/05/21 19:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.2		5.00	mg/Kg			10/05/21 10:34	1

Client Sample ID: C-776

Lab Sample ID: 890-1344-60

Date Collected: 09/30/21 13:26

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/06/21 10:57	10/09/21 22:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/06/21 10:57	10/09/21 22:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/06/21 10:57	10/09/21 22:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/06/21 10:57	10/09/21 22:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/06/21 10:57	10/09/21 22:29	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/06/21 10:57	10/09/21 22:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			10/06/21 10:57	10/09/21 22:29	1
1,4-Difluorobenzene (Surr)	83		70 - 130			10/06/21 10:57	10/09/21 22:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 19:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 19:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 19:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/05/21 08:25	10/05/21 19:50	1
o-Terphenyl	117		70 - 130			10/05/21 08:25	10/05/21 19:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		4.98	mg/Kg			10/05/21 10:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-777

Lab Sample ID: 890-1344-61

Date Collected: 09/30/21 13:27

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/06/21 10:57	10/09/21 22:49	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/06/21 10:57	10/09/21 22:49	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/06/21 10:57	10/09/21 22:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/06/21 10:57	10/09/21 22:49	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/06/21 10:57	10/09/21 22:49	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/06/21 10:57	10/09/21 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	10/06/21 10:57	10/09/21 22:49	1
1,4-Difluorobenzene (Surr)	84		70 - 130	10/06/21 10:57	10/09/21 22:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 08:23	10/05/21 16:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 08:23	10/05/21 16:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 08:23	10/05/21 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	10/05/21 08:23	10/05/21 16:13	1
o-Terphenyl	124		70 - 130	10/05/21 08:23	10/05/21 16:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.2		4.99	mg/Kg			10/05/21 10:45	1

Client Sample ID: C-778

Lab Sample ID: 890-1344-62

Date Collected: 09/30/21 13:28

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/06/21 10:57	10/09/21 23:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/06/21 10:57	10/09/21 23:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/06/21 10:57	10/09/21 23:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/06/21 10:57	10/09/21 23:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/06/21 10:57	10/09/21 23:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/06/21 10:57	10/09/21 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/06/21 10:57	10/09/21 23:10	1
1,4-Difluorobenzene (Surr)	77		70 - 130	10/06/21 10:57	10/09/21 23:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-778

Lab Sample ID: 890-1344-62

Date Collected: 09/30/21 13:28

Matrix: Solid

Date Received: 09/30/21 15:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 16:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 16:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/05/21 08:23	10/05/21 16:35	1
o-Terphenyl	128		70 - 130			10/05/21 08:23	10/05/21 16:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.2		5.05	mg/Kg			10/05/21 11:02	1

Client Sample ID: C.779

Lab Sample ID: 890-1344-63

Date Collected: 09/30/21 13:29

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/06/21 10:57	10/09/21 23:30	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/06/21 10:57	10/09/21 23:30	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/06/21 10:57	10/09/21 23:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/06/21 10:57	10/09/21 23:30	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/06/21 10:57	10/09/21 23:30	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/06/21 10:57	10/09/21 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			10/06/21 10:57	10/09/21 23:30	1
1,4-Difluorobenzene (Surr)	80		70 - 130			10/06/21 10:57	10/09/21 23:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/08/21 16:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/08/21 18:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 13:45	10/05/21 06:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 13:45	10/05/21 06:24	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C.779

Lab Sample ID: 890-1344-63

Date Collected: 09/30/21 13:29

Matrix: Solid

Date Received: 09/30/21 15:22

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 13:45	10/05/21 06:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	10/04/21 13:45	10/05/21 06:24	1
o-Terphenyl	134	S1+	70 - 130	10/04/21 13:45	10/05/21 06:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.4		5.01	mg/Kg			10/05/21 11:07	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1344-1	C-717	151 S1+	111
890-1344-2	C-718	133 S1+	105
890-1344-3	C-719	131 S1+	106
890-1344-4	C-720	136 S1+	105
890-1344-5	C-721	184 S1+	116
890-1344-6	C-722	112	108
890-1344-7	C-723	143 S1+	102
890-1344-8	C-724	142 S1+	108
890-1344-9	C-725	101	76
890-1344-10	C-726	127	103
890-1344-11	C-727	140 S1+	111
890-1344-12	C-728	120	94
890-1344-13	C-729	147 S1+	108
890-1344-14	C-730	141 S1+	105
890-1344-15	C-731	119	87
890-1344-16	C-732	142 S1+	106
890-1344-17	C-733	140 S1+	106
890-1344-18	C-734	120	103
890-1344-19	C-735	86	102
890-1344-19 MS	C-735	94	117
890-1344-19 MSD	C-735	88	78
890-1344-20	C-736	91	95
890-1344-21	C-737	98	95
890-1344-22	C-738	90	96
890-1344-23	C-739	92	100
890-1344-24	C-740	86	102
890-1344-25	C-741	88	95
890-1344-26	C-742	85	98
890-1344-27	C-743	87	112
890-1344-28	C-744	92	80
890-1344-29	C-745	86	103
890-1344-30	C-746	96	93
890-1344-31	C-747	96	100
890-1344-32	C-748	100	104
890-1344-33	C-749	86	97
890-1344-34	C-750	121	114
890-1344-35	C-751	99	110
890-1344-36	C-752	92	102
890-1344-37	C-753	86	100
890-1344-38	C-754	78	94
890-1344-39	C-755	118	81
890-1344-39 MS	C-755	115	88
890-1344-39 MSD	C-755	113	84
890-1344-40	C-756	120	82
890-1344-41	C-757	123	78
890-1344-42	C-758	116	78
890-1344-43	C-759	131 S1+	76
890-1344-44	C-760	136 S1+	80
890-1344-45	C-761	132 S1+	84

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1344-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1344-46	C-762	127	83
890-1344-47	C-763	133 S1+	78
890-1344-48	C-764	136 S1+	86
890-1344-49	C-765	132 S1+	76
890-1344-50	C-766	135 S1+	76
890-1344-51	C-767	128	75
890-1344-52	C-768	144 S1+	77
890-1344-53	C-769	129	76
890-1344-54	C-770	112	83
890-1344-55	C-771	134 S1+	74
890-1344-56	C-772	143 S1+	79
890-1344-57	C-773	134 S1+	56 S1-
890-1344-58	C-774	140 S1+	71
890-1344-59	C-775	122	76
890-1344-60	C-776	120	83
890-1344-61	C-777	121	84
890-1344-62	C-778	109	77
890-1344-63	C-779	117	80
890-1345-A-3-B MS	Matrix Spike	162 S1+	115
890-1345-A-3-C MSD	Matrix Spike Duplicate	96	113
LCS 880-8805/1-A	Lab Control Sample	129	82
LCS 880-8834/1-A	Lab Control Sample	78	79
LCS 880-8835/1-A	Lab Control Sample	111	74
LCS 880-8974/1-A	Lab Control Sample	118	83
LCSD 880-8805/2-A	Lab Control Sample Dup	121	99
LCSD 880-8834/2-A	Lab Control Sample Dup	91	102
LCSD 880-8835/2-A	Lab Control Sample Dup	115	82
LCSD 880-8974/2-A	Lab Control Sample Dup	124	84
MB 880-8805/5-A	Method Blank	79	98
MB 880-8834/5-A	Method Blank	120	127
MB 880-8835/5-A	Method Blank	115	77
MB 880-8923/5-A	Method Blank	74	98
MB 880-8974/5-A	Method Blank	113	78
MB 880-9005/5-A	Method Blank	121	79

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6735-A-42-C MS	Matrix Spike	103	98
880-6735-A-42-D MSD	Matrix Spike Duplicate	103	100
890-1344-1	C-717	116	107
890-1344-1 MS	C-717	108	95
890-1344-1 MSD	C-717	105	94
890-1344-2	C-718	112	105

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1344-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-1344-3	C-719	116	106
890-1344-4	C-720	111	105
890-1344-5	C-721	116	109
890-1344-6	C-722	109	104
890-1344-7	C-723	104	98
890-1344-8	C-724	113	104
890-1344-9	C-725	108	103
890-1344-10	C-726	116	108
890-1344-11	C-727	118	107
890-1344-12	C-728	112	104
890-1344-13	C-729	110	101
890-1344-14	C-730	112	101
890-1344-15	C-731	113	104
890-1344-16	C-732	110	105
890-1344-17	C-733	108	103
890-1344-18	C-734	113	106
890-1344-19	C-735	110	99
890-1344-20	C-736	111	110
890-1344-21	C-737	113	122
890-1344-21 MS	C-737	114	111
890-1344-21 MSD	C-737	114	109
890-1344-22	C-738	118	124
890-1344-23	C-739	112	123
890-1344-24	C-740	120	127
890-1344-25	C-741	114	123
890-1344-26	C-742	109	121
890-1344-27	C-743	109	119
890-1344-28	C-744	111	121
890-1344-29	C-745	113	125
890-1344-30	C-746	117	125
890-1344-31	C-747	123	133 S1+
890-1344-32	C-748	119	132 S1+
890-1344-33	C-749	111	119
890-1344-34	C-750	108	119
890-1344-35	C-751	111	118
890-1344-36	C-752	109	117
890-1344-37	C-753	114	120
890-1344-38	C-754	109	119
890-1344-39	C-755	115	124
890-1344-40	C-756	110	123
890-1344-41	C-757	126	132 S1+
890-1344-41 MS	C-757	105	100
890-1344-41 MSD	C-757	112	112
890-1344-42	C-758	111	118
890-1344-43	C-759	111	118
890-1344-44	C-760	116	127
890-1344-45	C-761	116	125
890-1344-46	C-762	120	129
890-1344-47	C-763	111	119
890-1344-48	C-764	123	130

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1344-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1344-49	C-765	110	115
890-1344-50	C-766	117	123
890-1344-51	C-767	113	119
890-1344-52	C-768	113	122
890-1344-53	C-769	125	133 S1+
890-1344-54	C-770	117	124
890-1344-55	C-771	120	127
890-1344-56	C-772	117	125
890-1344-57	C-773	116	124
890-1344-58	C-774	114	118
890-1344-59	C-775	126	134 S1+
890-1344-60	C-776	111	117
890-1344-61	C-777	109	124
890-1344-62	C-778	111	128
890-1344-63	C-779	123	134 S1+
890-1349-A-1-F MS	Matrix Spike	120	110
890-1349-A-1-G MSD	Matrix Spike Duplicate	122	113
LCS 880-8829/2-A	Lab Control Sample	113	117
LCS 880-8848/2-A	Lab Control Sample	116	102
LCS 880-8856/2-A	Lab Control Sample	114	116
LCS 880-8877/2-A	Lab Control Sample	104	101
LCS 880-8880/2-A	Lab Control Sample	109	106
LCSD 880-8829/3-A	Lab Control Sample Dup	108	111
LCSD 880-8848/3-A	Lab Control Sample Dup	119	104
LCSD 880-8856/3-A	Lab Control Sample Dup	115	112
LCSD 880-8877/3-A	Lab Control Sample Dup	106	111
LCSD 880-8880/3-A	Lab Control Sample Dup	106	106
MB 880-8829/1-A	Method Blank	122	128
MB 880-8848/1-A	Method Blank	108	103
MB 880-8856/1-A	Method Blank	112	131 S1+
MB 880-8877/1-A	Method Blank	112	129
MB 880-8880/1-A	Method Blank	118	125

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8805/5-A

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8805

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 11:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 11:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 11:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/04/21 13:40	10/06/21 11:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:40	10/06/21 11:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:40	10/06/21 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	10/04/21 13:40	10/06/21 11:06	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/04/21 13:40	10/06/21 11:06	1

Lab Sample ID: LCS 880-8805/1-A

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07797		mg/Kg		78	70 - 130
Toluene	0.100	0.09079		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08547		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.200	0.1834		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09472		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-8805/2-A

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8805

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07554		mg/Kg		76	70 - 130	3	35
Toluene	0.100	0.08417		mg/Kg		84	70 - 130	8	35
Ethylbenzene	0.100	0.08058		mg/Kg		81	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1755		mg/Kg		88	70 - 130	4	35
o-Xylene	0.100	0.09166		mg/Kg		92	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-1345-A-3-B MS

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.03400	F1	mg/Kg		33	70 - 130
Toluene	<0.00199	U F1	0.100	0.02366	F1	mg/Kg		24	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1345-A-3-B MS

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F1	0.100	0.03181	F1	mg/Kg		32	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.03645	F1	mg/Kg		18	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.04584	F1	mg/Kg		46	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 890-1345-A-3-C MSD

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8805

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1	0.100	0.03604	F1	mg/Kg		36	70 - 130	6	35
Toluene	<0.00199	U F1	0.100	0.02560	F1	mg/Kg		26	70 - 130	8	35
Ethylbenzene	<0.00199	U F1	0.100	0.03476	F1	mg/Kg		35	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.03011	F1	mg/Kg		15	70 - 130	19	35
o-Xylene	<0.00199	U F1	0.100	0.04205	F1	mg/Kg		42	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: MB 880-8834/5-A

Matrix: Solid

Analysis Batch: 8964

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8834

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 12:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 12:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 12:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/04/21 13:51	10/06/21 12:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:51	10/06/21 12:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:51	10/06/21 12:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	10/04/21 13:51	10/06/21 12:36	1
1,4-Difluorobenzene (Surr)	127		70 - 130	10/04/21 13:51	10/06/21 12:36	1

Lab Sample ID: LCS 880-8834/1-A

Matrix: Solid

Analysis Batch: 8964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07514		mg/Kg		75	70 - 130
Toluene	0.100	0.09000		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08247		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.200	0.1464		mg/Kg		73	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8834/1-A

Matrix: Solid

Analysis Batch: 8964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.07450		mg/Kg		74	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: LCSD 880-8834/2-A

Matrix: Solid

Analysis Batch: 8964

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8834

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08129		mg/Kg		81	70 - 130	8	35
Toluene	0.100	0.1086		mg/Kg		109	70 - 130	19	35
Ethylbenzene	0.100	0.1009		mg/Kg		101	70 - 130	20	35
m-Xylene & p-Xylene	0.200	0.1798		mg/Kg		90	70 - 130	20	35
o-Xylene	0.100	0.08352		mg/Kg		84	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-1344-19 MS

Matrix: Solid

Analysis Batch: 8964

Client Sample ID: C-735

Prep Type: Total/NA

Prep Batch: 8834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.101	0.05278	F1	mg/Kg		52	70 - 130
Toluene	<0.00198	U	0.101	0.07184		mg/Kg		71	70 - 130
Ethylbenzene	<0.00198	U	0.101	0.07093		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.202	0.1341	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00198	U F1	0.101	0.06786	F1	mg/Kg		67	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 890-1344-19 MSD

Matrix: Solid

Analysis Batch: 8964

Client Sample ID: C-735

Prep Type: Total/NA

Prep Batch: 8834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00198	U F1	0.0992	0.05706	F1	mg/Kg		58	70 - 130	8	35
Toluene	<0.00198	U	0.0992	0.07537		mg/Kg		76	70 - 130	5	35
Ethylbenzene	<0.00198	U	0.0992	0.07359		mg/Kg		74	70 - 130	4	35
m-Xylene & p-Xylene	<0.00396	U F1	0.198	0.1291	F1	mg/Kg		65	70 - 130	4	35
o-Xylene	<0.00198	U F1	0.0992	0.06264	F1	mg/Kg		63	70 - 130	8	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1344-19 MSD

Matrix: Solid

Analysis Batch: 8964

Client Sample ID: C-735

Prep Type: Total/NA

Prep Batch: 8834

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: MB 880-8835/5-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8835

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 17:53	1	
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 17:53	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 17:53	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/04/21 13:53	10/08/21 17:53	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:53	10/08/21 17:53	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:53	10/08/21 17:53	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	115		70 - 130	10/04/21 13:53	10/08/21 17:53	1			
1,4-Difluorobenzene (Surr)	77		70 - 130	10/04/21 13:53	10/08/21 17:53	1			

Lab Sample ID: LCS 880-8835/1-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8835

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	
Benzene	0.100	0.09429		mg/Kg		94		70 - 130	
Toluene	0.100	0.09431		mg/Kg		94		70 - 130	
Ethylbenzene	0.100	0.09607		mg/Kg		96		70 - 130	
m-Xylene & p-Xylene	0.200	0.2007		mg/Kg		100		70 - 130	
o-Xylene	0.100	0.1109		mg/Kg		111		70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Lab Sample ID: LCSD 880-8835/2-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8835

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
Benzene	0.100	0.09698		mg/Kg		97		70 - 130	3	35
Toluene	0.100	0.09726		mg/Kg		97		70 - 130	3	35
Ethylbenzene	0.100	0.09871		mg/Kg		99		70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2066		mg/Kg		103		70 - 130	3	35
o-Xylene	0.100	0.1090		mg/Kg		109		70 - 130	2	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-8835/2-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8835

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: 890-1344-39 MS

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: C-755

Prep Type: Total/NA

Prep Batch: 8835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.100	0.1149		mg/Kg		115	70 - 130
Toluene	<0.00200	U	0.100	0.1067		mg/Kg		107	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1075		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2176		mg/Kg		109	70 - 130
o-Xylene	<0.00200	U	0.100	0.1172		mg/Kg		117	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 890-1344-39 MSD

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: C-755

Prep Type: Total/NA

Prep Batch: 8835

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1105		mg/Kg		111	70 - 130	4	35
Toluene	<0.00200	U	0.0996	0.1013		mg/Kg		102	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0996	0.1034		mg/Kg		104	70 - 130	4	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.2116		mg/Kg		106	70 - 130	3	35
o-Xylene	<0.00200	U	0.0996	0.1113		mg/Kg		111	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: MB 880-8923/5-A

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8923

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00000200	U	0.00000200	mg/Kg		10/05/21 14:14	10/05/21 21:12	1
Toluene	<0.00000200	U	0.00000200	mg/Kg		10/05/21 14:14	10/05/21 21:12	1
Ethylbenzene	<0.00000200	U	0.00000200	mg/Kg		10/05/21 14:14	10/05/21 21:12	1
m-Xylene & p-Xylene	<0.00000400	U	0.00000400	mg/Kg		10/05/21 14:14	10/05/21 21:12	1
o-Xylene	<0.00000200	U	0.00000200	mg/Kg		10/05/21 14:14	10/05/21 21:12	1
Xylenes, Total	<0.00000400	U	0.00000400	mg/Kg		10/05/21 14:14	10/05/21 21:12	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8923/5-A

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8923

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	10/05/21 14:14	10/05/21 21:12	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/05/21 14:14	10/05/21 21:12	1

Lab Sample ID: MB 880-8974/5-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8974

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/06/21 10:57	10/09/21 15:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/06/21 10:57	10/09/21 15:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/06/21 10:57	10/09/21 15:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/06/21 10:57	10/09/21 15:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/06/21 10:57	10/09/21 15:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/06/21 10:57	10/09/21 15:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	10/06/21 10:57	10/09/21 15:38	1
1,4-Difluorobenzene (Surr)	78		70 - 130	10/06/21 10:57	10/09/21 15:38	1

Lab Sample ID: LCS 880-8974/1-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09577		mg/Kg		96	70 - 130
Toluene	0.100	0.09648		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1036		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2146		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1083		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: LCSD 880-8974/2-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8974

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09824		mg/Kg		98	70 - 130	3	35
Toluene	0.100	0.09772		mg/Kg		98	70 - 130	1	35
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2161		mg/Kg		108	70 - 130	1	35
o-Xylene	0.100	0.1081		mg/Kg		108	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-8974/2-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8974

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: MB 880-9005/5-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9005

Analyte	MB	MB						
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/06/21 16:47	10/09/21 04:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/06/21 16:47	10/09/21 04:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/06/21 16:47	10/09/21 04:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/06/21 16:47	10/09/21 04:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/06/21 16:47	10/09/21 04:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/06/21 16:47	10/09/21 04:45	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	121		70 - 130	10/06/21 16:47	10/09/21 04:45	1		
1,4-Difluorobenzene (Surr)	79		70 - 130	10/06/21 16:47	10/09/21 04:45	1		

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-8829/1-A

Matrix: Solid

Analysis Batch: 8775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8829

Analyte	MB	MB						
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 13:45	10/04/21 21:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 13:45	10/04/21 21:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 13:45	10/04/21 21:30	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	122		70 - 130	10/04/21 13:45	10/04/21 21:30	1		
o-Terphenyl	128		70 - 130	10/04/21 13:45	10/04/21 21:30	1		

Lab Sample ID: LCS 880-8829/2-A

Matrix: Solid

Analysis Batch: 8775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	968.3		mg/Kg		97	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1131		mg/Kg		113	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	117		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8829/3-A

Matrix: Solid

Analysis Batch: 8775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8829

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	910.6		mg/Kg		91	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1069		mg/Kg		107	70 - 130	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: 890-1349-A-1-F MS

Matrix: Solid

Analysis Batch: 8775

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	299		995	1030		mg/Kg		73	70 - 130		
Diesel Range Organics (Over C10-C28)	287		995	1341		mg/Kg		106	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	120		70 - 130								
o-Terphenyl	110		70 - 130								

Lab Sample ID: 890-1349-A-1-G MSD

Matrix: Solid

Analysis Batch: 8775

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	299		997	1121		mg/Kg		82	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	287		997	1374		mg/Kg		109	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	122		70 - 130								
o-Terphenyl	113		70 - 130								

Lab Sample ID: MB 880-8848/1-A

Matrix: Solid

Analysis Batch: 8769

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8848

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/04/21 21:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/04/21 21:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 14:28	10/04/21 21:29	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-8848/1-A

Matrix: Solid

Analysis Batch: 8769

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8848

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	10/04/21 14:28	10/04/21 21:29	1
o-Terphenyl	103		70 - 130	10/04/21 14:28	10/04/21 21:29	1

Lab Sample ID: LCS 880-8848/2-A

Matrix: Solid

Analysis Batch: 8769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8848

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1001		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	953.5		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-8848/3-A

Matrix: Solid

Analysis Batch: 8769

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8848

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1006		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	982.4		mg/Kg		98	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-1344-1 MS

Matrix: Solid

Analysis Batch: 8769

Client Sample ID: C-717

Prep Type: Total/NA

Prep Batch: 8848

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	995.3		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	995	776.5		mg/Kg		78	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	95		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1344-1 MSD

Matrix: Solid

Analysis Batch: 8769

Client Sample ID: C-717

Prep Type: Total/NA

Prep Batch: 8848

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	842.7		mg/Kg		85	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	796.3		mg/Kg		80	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	94		70 - 130								

Lab Sample ID: MB 880-8856/1-A

Matrix: Solid

Analysis Batch: 8869

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8856

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 10:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 10:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 14:50	10/05/21 10:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/04/21 14:50	10/05/21 10:26	1
o-Terphenyl	131	S1+	70 - 130			10/04/21 14:50	10/05/21 10:26	1

Lab Sample ID: LCS 880-8856/2-A

Matrix: Solid

Analysis Batch: 8869

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1055		mg/Kg		105	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1031		mg/Kg		103	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	116		70 - 130						

Lab Sample ID: LCSD 880-8856/3-A

Matrix: Solid

Analysis Batch: 8869

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8856

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1032		mg/Kg		103	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1024		mg/Kg		102	70 - 130	1	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8856/3-A

Matrix: Solid

Analysis Batch: 8869

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8856

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 890-1344-21 MS

Matrix: Solid

Analysis Batch: 8869

Client Sample ID: C-737

Prep Type: Total/NA

Prep Batch: 8856

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1016		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	995	963.2		mg/Kg		97	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: 890-1344-21 MSD

Matrix: Solid

Analysis Batch: 8869

Client Sample ID: C-737

Prep Type: Total/NA

Prep Batch: 8856

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1055		mg/Kg		106	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	963.8		mg/Kg		97	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	114		70 - 130								
o-Terphenyl	109		70 - 130								

Lab Sample ID: MB 880-8877/1-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8877

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 10:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 10:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 10:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/05/21 08:23	10/05/21 10:26	1
o-Terphenyl	129		70 - 130			10/05/21 08:23	10/05/21 10:26	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-8877/2-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8877

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	884.0		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	920.7		mg/Kg		92	70 - 130		

Lab Sample ID: LCSD 880-8877/3-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8877

Top Bottom Cell											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	928.7		mg/Kg		93	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	966.7		mg/Kg		97	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	106		70 - 130								
o-Terphenyl	111		70 - 130								

Lab Sample ID: 880-6735-A-42-C MS

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8877

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	943.1		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	995	854.2		mg/Kg		86	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	98		70 - 130								

Lab Sample ID: 880-6735-A-42-D MSD

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8877

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	979.0		mg/Kg		96	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	871.0		mg/Kg		87	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	103		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6735-A-42-D MSD

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8877

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	100		70 - 130

Lab Sample ID: MB 880-8880/1-A

Matrix: Solid

Analysis Batch: 8875

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8880

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 10:49	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 10:49	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 08:25	10/05/21 10:49	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	118		70 - 130			10/05/21 08:25	10/05/21 10:49	1	
<i>o</i> -Terphenyl	125		70 - 130			10/05/21 08:25	10/05/21 10:49	1	

Lab Sample ID: LCS 880-8880/2-A

Matrix: Solid

Analysis Batch: 8875

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8880

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	962.0		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130		
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
<i>o</i> -Terphenyl	106		70 - 130						

Lab Sample ID: LCSD 880-8880/3-A

Matrix: Solid

Analysis Batch: 8875

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8880

	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	931.0		mg/Kg		93	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1013		mg/Kg		101	70 - 130	0	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
<i>o</i> -Terphenyl	106		70 - 130						

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1344-41 MS

Matrix: Solid

Analysis Batch: 8875

Client Sample ID: C-757

Prep Type: Total/NA

Prep Batch: 8880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	915.6		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	995	945.3		mg/Kg		95	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	105		70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: 890-1344-41 MSD

Matrix: Solid

Analysis Batch: 8875

Client Sample ID: C-757

Prep Type: Total/NA

Prep Batch: 8880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	970.7		mg/Kg		97	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1075		mg/Kg		108	70 - 130	13	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	112		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8737/1-A

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/05/21 08:30	1

Lab Sample ID: LCS 880-8737/2-A

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	263.3		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-8737/3-A

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	263.3		mg/Kg		105	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1344-61 MS

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: C-777

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	65.2		250	327.9		mg/Kg		105	90 - 110

Lab Sample ID: 890-1344-61 MSD

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: C-777

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	65.2		250	329.0		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-8729/1-A

Matrix: Solid

Analysis Batch: 8838

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/04/21 17:21	1

Lab Sample ID: LCS 880-8729/2-A

Matrix: Solid

Analysis Batch: 8838

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	262.4		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-8729/3-A

Matrix: Solid

Analysis Batch: 8838

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	263.5		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-1333-A-28-D MS

Matrix: Solid

Analysis Batch: 8838

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	366		248	609.8		mg/Kg		98	90 - 110

Lab Sample ID: 890-1333-A-28-E MSD

Matrix: Solid

Analysis Batch: 8838

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	366		248	611.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-8731/1-A

Matrix: Solid

Analysis Batch: 8851

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/05/21 08:11	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-8731/2-A

Matrix: Solid

Analysis Batch: 8851

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	266.7		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-8731/3-A

Matrix: Solid

Analysis Batch: 8851

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	266.6		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-6662-A-1-E MS

Matrix: Solid

Analysis Batch: 8851

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9410	F1	2480	12570	F1	mg/Kg		127	90 - 110

Lab Sample ID: 880-6662-A-1-F MSD

Matrix: Solid

Analysis Batch: 8851

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9410	F1	2480	12520	F1	mg/Kg		126	90 - 110	0	20

Lab Sample ID: 890-1347-A-1-E MS

Matrix: Solid

Analysis Batch: 8851

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	244	F1	250	529.5	F1	mg/Kg		114	90 - 110

Lab Sample ID: 890-1347-A-1-F MSD

Matrix: Solid

Analysis Batch: 8851

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	244	F1	250	515.3		mg/Kg		109	90 - 110	3	20

Lab Sample ID: MB 880-8736/1-A

Matrix: Solid

Analysis Batch: 8938

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/05/21 13:03	1

Lab Sample ID: LCS 880-8736/2-A

Matrix: Solid

Analysis Batch: 8938

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	270.1		mg/Kg		108	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-8736/3-A

Matrix: Solid

Analysis Batch: 8938

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	268.5		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 890-1344-23 MS

Matrix: Solid

Analysis Batch: 8938

Client Sample ID: C-739

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1080		250	1293	4	mg/Kg		85	90 - 110		

Lab Sample ID: 890-1344-23 MSD

Matrix: Solid

Analysis Batch: 8938

Client Sample ID: C-739

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1080		250	1292	4	mg/Kg		85	90 - 110	0	20

Lab Sample ID: MB 880-9056/1-A

Matrix: Solid

Analysis Batch: 9154

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/08/21 23:47	1

Lab Sample ID: LCS 880-9056/2-A

Matrix: Solid

Analysis Batch: 9154

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.4		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-9056/3-A

Matrix: Solid

Analysis Batch: 9154

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	248.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-1344-33 MS

Matrix: Solid

Analysis Batch: 9154

Client Sample ID: C-749

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	324		1260	1642		mg/Kg		104	90 - 110		

Lab Sample ID: 890-1344-33 MSD

Matrix: Solid

Analysis Batch: 9154

Client Sample ID: C-749

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	324		1260	1648		mg/Kg		105	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1344-43 MS

Matrix: Solid

Analysis Batch: 9154

Client Sample ID: C-759

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	21.2		249	277.3		mg/Kg		103	90 - 110

Lab Sample ID: 890-1344-43 MSD

Matrix: Solid

Analysis Batch: 9154

Client Sample ID: C-759

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	21.2		249	277.5		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

GC VOA

Prep Batch: 8805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-1	C-717	Total/NA	Solid	5035	
890-1344-2	C-718	Total/NA	Solid	5035	
890-1344-3	C-719	Total/NA	Solid	5035	
890-1344-4	C-720	Total/NA	Solid	5035	
890-1344-5	C-721	Total/NA	Solid	5035	
890-1344-6	C-722	Total/NA	Solid	5035	
890-1344-7	C-723	Total/NA	Solid	5035	
890-1344-8	C-724	Total/NA	Solid	5035	
890-1344-9	C-725	Total/NA	Solid	5035	
890-1344-10	C-726	Total/NA	Solid	5035	
890-1344-11	C-727	Total/NA	Solid	5035	
890-1344-12	C-728	Total/NA	Solid	5035	
890-1344-13	C-729	Total/NA	Solid	5035	
890-1344-14	C-730	Total/NA	Solid	5035	
890-1344-15	C-731	Total/NA	Solid	5035	
890-1344-16	C-732	Total/NA	Solid	5035	
890-1344-17	C-733	Total/NA	Solid	5035	
890-1344-18	C-734	Total/NA	Solid	5035	
MB 880-8805/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8805/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8805/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1345-A-3-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1345-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 8834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-19	C-735	Total/NA	Solid	5035	
890-1344-20	C-736	Total/NA	Solid	5035	
890-1344-21	C-737	Total/NA	Solid	5035	
890-1344-22	C-738	Total/NA	Solid	5035	
890-1344-23	C-739	Total/NA	Solid	5035	
890-1344-24	C-740	Total/NA	Solid	5035	
890-1344-25	C-741	Total/NA	Solid	5035	
890-1344-26	C-742	Total/NA	Solid	5035	
890-1344-27	C-743	Total/NA	Solid	5035	
890-1344-28	C-744	Total/NA	Solid	5035	
890-1344-29	C-745	Total/NA	Solid	5035	
890-1344-30	C-746	Total/NA	Solid	5035	
890-1344-31	C-747	Total/NA	Solid	5035	
890-1344-32	C-748	Total/NA	Solid	5035	
890-1344-33	C-749	Total/NA	Solid	5035	
890-1344-34	C-750	Total/NA	Solid	5035	
890-1344-35	C-751	Total/NA	Solid	5035	
890-1344-36	C-752	Total/NA	Solid	5035	
890-1344-37	C-753	Total/NA	Solid	5035	
890-1344-38	C-754	Total/NA	Solid	5035	
MB 880-8834/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8834/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8834/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1344-19 MS	C-735	Total/NA	Solid	5035	
890-1344-19 MSD	C-735	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

GC VOA

Prep Batch: 8835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-39	C-755	Total/NA	Solid	5035	
890-1344-40	C-756	Total/NA	Solid	5035	
890-1344-41	C-757	Total/NA	Solid	5035	
890-1344-42	C-758	Total/NA	Solid	5035	
890-1344-43	C-759	Total/NA	Solid	5035	
890-1344-44	C-760	Total/NA	Solid	5035	
890-1344-45	C-761	Total/NA	Solid	5035	
890-1344-46	C-762	Total/NA	Solid	5035	
890-1344-47	C-763	Total/NA	Solid	5035	
890-1344-48	C-764	Total/NA	Solid	5035	
890-1344-49	C-765	Total/NA	Solid	5035	
890-1344-50	C-766	Total/NA	Solid	5035	
890-1344-51	C-767	Total/NA	Solid	5035	
890-1344-52	C-768	Total/NA	Solid	5035	
890-1344-53	C-769	Total/NA	Solid	5035	
890-1344-54	C-770	Total/NA	Solid	5035	
890-1344-55	C-771	Total/NA	Solid	5035	
890-1344-56	C-772	Total/NA	Solid	5035	
890-1344-57	C-773	Total/NA	Solid	5035	
890-1344-58	C-774	Total/NA	Solid	5035	
MB 880-8835/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8835/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8835/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1344-39 MS	C-755	Total/NA	Solid	5035	
890-1344-39 MSD	C-755	Total/NA	Solid	5035	

Prep Batch: 8923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8923/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 8924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-1	C-717	Total/NA	Solid	8021B	8805
890-1344-2	C-718	Total/NA	Solid	8021B	8805
890-1344-3	C-719	Total/NA	Solid	8021B	8805
890-1344-4	C-720	Total/NA	Solid	8021B	8805
890-1344-5	C-721	Total/NA	Solid	8021B	8805
890-1344-6	C-722	Total/NA	Solid	8021B	8805
890-1344-7	C-723	Total/NA	Solid	8021B	8805
890-1344-8	C-724	Total/NA	Solid	8021B	8805
890-1344-9	C-725	Total/NA	Solid	8021B	8805
890-1344-10	C-726	Total/NA	Solid	8021B	8805
890-1344-11	C-727	Total/NA	Solid	8021B	8805
890-1344-12	C-728	Total/NA	Solid	8021B	8805
890-1344-13	C-729	Total/NA	Solid	8021B	8805
890-1344-14	C-730	Total/NA	Solid	8021B	8805
890-1344-15	C-731	Total/NA	Solid	8021B	8805
890-1344-16	C-732	Total/NA	Solid	8021B	8805
890-1344-17	C-733	Total/NA	Solid	8021B	8805
890-1344-18	C-734	Total/NA	Solid	8021B	8805
MB 880-8805/5-A	Method Blank	Total/NA	Solid	8021B	8805

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8923/5-A	Method Blank	Total/NA	Solid	8021B	8923
LCS 880-8805/1-A	Lab Control Sample	Total/NA	Solid	8021B	8805
LCSD 880-8805/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8805
890-1345-A-3-B MS	Matrix Spike	Total/NA	Solid	8021B	8805
890-1345-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8805

Analysis Batch: 8960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-1	C-717	Total/NA	Solid	Total BTEX	
890-1344-2	C-718	Total/NA	Solid	Total BTEX	
890-1344-3	C-719	Total/NA	Solid	Total BTEX	
890-1344-4	C-720	Total/NA	Solid	Total BTEX	
890-1344-5	C-721	Total/NA	Solid	Total BTEX	
890-1344-6	C-722	Total/NA	Solid	Total BTEX	
890-1344-7	C-723	Total/NA	Solid	Total BTEX	
890-1344-8	C-724	Total/NA	Solid	Total BTEX	
890-1344-9	C-725	Total/NA	Solid	Total BTEX	
890-1344-10	C-726	Total/NA	Solid	Total BTEX	
890-1344-11	C-727	Total/NA	Solid	Total BTEX	
890-1344-12	C-728	Total/NA	Solid	Total BTEX	
890-1344-13	C-729	Total/NA	Solid	Total BTEX	
890-1344-14	C-730	Total/NA	Solid	Total BTEX	
890-1344-15	C-731	Total/NA	Solid	Total BTEX	
890-1344-16	C-732	Total/NA	Solid	Total BTEX	
890-1344-17	C-733	Total/NA	Solid	Total BTEX	
890-1344-18	C-734	Total/NA	Solid	Total BTEX	

Analysis Batch: 8964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-19	C-735	Total/NA	Solid	8021B	8834
890-1344-20	C-736	Total/NA	Solid	8021B	8834
890-1344-21	C-737	Total/NA	Solid	8021B	8834
890-1344-22	C-738	Total/NA	Solid	8021B	8834
890-1344-23	C-739	Total/NA	Solid	8021B	8834
890-1344-24	C-740	Total/NA	Solid	8021B	8834
890-1344-25	C-741	Total/NA	Solid	8021B	8834
890-1344-26	C-742	Total/NA	Solid	8021B	8834
890-1344-27	C-743	Total/NA	Solid	8021B	8834
890-1344-28	C-744	Total/NA	Solid	8021B	8834
890-1344-29	C-745	Total/NA	Solid	8021B	8834
890-1344-30	C-746	Total/NA	Solid	8021B	8834
890-1344-31	C-747	Total/NA	Solid	8021B	8834
890-1344-32	C-748	Total/NA	Solid	8021B	8834
890-1344-33	C-749	Total/NA	Solid	8021B	8834
890-1344-34	C-750	Total/NA	Solid	8021B	8834
890-1344-35	C-751	Total/NA	Solid	8021B	8834
890-1344-36	C-752	Total/NA	Solid	8021B	8834
890-1344-37	C-753	Total/NA	Solid	8021B	8834
890-1344-38	C-754	Total/NA	Solid	8021B	8834
MB 880-8834/5-A	Method Blank	Total/NA	Solid	8021B	8834
LCS 880-8834/1-A	Lab Control Sample	Total/NA	Solid	8021B	8834

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8964 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-8834/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8834
890-1344-19 MS	C-735	Total/NA	Solid	8021B	8834
890-1344-19 MSD	C-735	Total/NA	Solid	8021B	8834

Prep Batch: 8974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-59	C-775	Total/NA	Solid	5035	
890-1344-60	C-776	Total/NA	Solid	5035	
890-1344-61	C-777	Total/NA	Solid	5035	
890-1344-62	C-778	Total/NA	Solid	5035	
890-1344-63	C-779	Total/NA	Solid	5035	
MB 880-8974/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8974/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8974/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 9000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-19	C-735	Total/NA	Solid	Total BTEX	
890-1344-20	C-736	Total/NA	Solid	Total BTEX	
890-1344-21	C-737	Total/NA	Solid	Total BTEX	
890-1344-22	C-738	Total/NA	Solid	Total BTEX	
890-1344-23	C-739	Total/NA	Solid	Total BTEX	
890-1344-24	C-740	Total/NA	Solid	Total BTEX	
890-1344-25	C-741	Total/NA	Solid	Total BTEX	
890-1344-26	C-742	Total/NA	Solid	Total BTEX	
890-1344-27	C-743	Total/NA	Solid	Total BTEX	
890-1344-28	C-744	Total/NA	Solid	Total BTEX	
890-1344-29	C-745	Total/NA	Solid	Total BTEX	
890-1344-30	C-746	Total/NA	Solid	Total BTEX	
890-1344-31	C-747	Total/NA	Solid	Total BTEX	
890-1344-32	C-748	Total/NA	Solid	Total BTEX	
890-1344-33	C-749	Total/NA	Solid	Total BTEX	
890-1344-34	C-750	Total/NA	Solid	Total BTEX	
890-1344-35	C-751	Total/NA	Solid	Total BTEX	
890-1344-36	C-752	Total/NA	Solid	Total BTEX	
890-1344-37	C-753	Total/NA	Solid	Total BTEX	
890-1344-38	C-754	Total/NA	Solid	Total BTEX	

Prep Batch: 9005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9005/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 9112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-39	C-755	Total/NA	Solid	8021B	8835
890-1344-40	C-756	Total/NA	Solid	8021B	8835
890-1344-41	C-757	Total/NA	Solid	8021B	8835
890-1344-42	C-758	Total/NA	Solid	8021B	8835
890-1344-43	C-759	Total/NA	Solid	8021B	8835
890-1344-44	C-760	Total/NA	Solid	8021B	8835
890-1344-45	C-761	Total/NA	Solid	8021B	8835

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9112 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-46	C-762	Total/NA	Solid	8021B	8835
890-1344-47	C-763	Total/NA	Solid	8021B	8835
890-1344-48	C-764	Total/NA	Solid	8021B	8835
890-1344-49	C-765	Total/NA	Solid	8021B	8835
890-1344-50	C-766	Total/NA	Solid	8021B	8835
890-1344-51	C-767	Total/NA	Solid	8021B	8835
890-1344-52	C-768	Total/NA	Solid	8021B	8835
890-1344-53	C-769	Total/NA	Solid	8021B	8835
890-1344-54	C-770	Total/NA	Solid	8021B	8835
890-1344-55	C-771	Total/NA	Solid	8021B	8835
890-1344-56	C-772	Total/NA	Solid	8021B	8835
890-1344-57	C-773	Total/NA	Solid	8021B	8835
890-1344-58	C-774	Total/NA	Solid	8021B	8835
890-1344-59	C-775	Total/NA	Solid	8021B	8974
890-1344-60	C-776	Total/NA	Solid	8021B	8974
890-1344-61	C-777	Total/NA	Solid	8021B	8974
890-1344-62	C-778	Total/NA	Solid	8021B	8974
890-1344-63	C-779	Total/NA	Solid	8021B	8974
MB 880-8835/5-A	Method Blank	Total/NA	Solid	8021B	8835
MB 880-8974/5-A	Method Blank	Total/NA	Solid	8021B	8974
MB 880-9005/5-A	Method Blank	Total/NA	Solid	8021B	9005
LCS 880-8835/1-A	Lab Control Sample	Total/NA	Solid	8021B	8835
LCS 880-8974/1-A	Lab Control Sample	Total/NA	Solid	8021B	8974
LCSD 880-8835/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8835
LCSD 880-8974/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8974
890-1344-39 MS	C-755	Total/NA	Solid	8021B	8835
890-1344-39 MSD	C-755	Total/NA	Solid	8021B	8835

Analysis Batch: 9139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-39	C-755	Total/NA	Solid	Total BTEX	
890-1344-40	C-756	Total/NA	Solid	Total BTEX	
890-1344-41	C-757	Total/NA	Solid	Total BTEX	
890-1344-42	C-758	Total/NA	Solid	Total BTEX	
890-1344-43	C-759	Total/NA	Solid	Total BTEX	
890-1344-44	C-760	Total/NA	Solid	Total BTEX	
890-1344-45	C-761	Total/NA	Solid	Total BTEX	
890-1344-46	C-762	Total/NA	Solid	Total BTEX	
890-1344-47	C-763	Total/NA	Solid	Total BTEX	
890-1344-48	C-764	Total/NA	Solid	Total BTEX	
890-1344-49	C-765	Total/NA	Solid	Total BTEX	
890-1344-50	C-766	Total/NA	Solid	Total BTEX	
890-1344-51	C-767	Total/NA	Solid	Total BTEX	
890-1344-52	C-768	Total/NA	Solid	Total BTEX	
890-1344-53	C-769	Total/NA	Solid	Total BTEX	
890-1344-54	C-770	Total/NA	Solid	Total BTEX	
890-1344-55	C-771	Total/NA	Solid	Total BTEX	
890-1344-56	C-772	Total/NA	Solid	Total BTEX	
890-1344-57	C-773	Total/NA	Solid	Total BTEX	
890-1344-58	C-774	Total/NA	Solid	Total BTEX	
890-1344-59	C-775	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9139 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-60	C-776	Total/NA	Solid	Total BTEX	
890-1344-61	C-777	Total/NA	Solid	Total BTEX	
890-1344-62	C-778	Total/NA	Solid	Total BTEX	
890-1344-63	C.779	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 8769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-1	C-717	Total/NA	Solid	8015B NM	8848
890-1344-2	C-718	Total/NA	Solid	8015B NM	8848
890-1344-3	C-719	Total/NA	Solid	8015B NM	8848
890-1344-4	C-720	Total/NA	Solid	8015B NM	8848
890-1344-5	C-721	Total/NA	Solid	8015B NM	8848
890-1344-6	C-722	Total/NA	Solid	8015B NM	8848
890-1344-7	C-723	Total/NA	Solid	8015B NM	8848
890-1344-8	C.724	Total/NA	Solid	8015B NM	8848
890-1344-9	C.725	Total/NA	Solid	8015B NM	8848
890-1344-10	C.726	Total/NA	Solid	8015B NM	8848
890-1344-11	C.727	Total/NA	Solid	8015B NM	8848
890-1344-12	C.728	Total/NA	Solid	8015B NM	8848
890-1344-13	C.729	Total/NA	Solid	8015B NM	8848
890-1344-14	C.730	Total/NA	Solid	8015B NM	8848
890-1344-15	C.731	Total/NA	Solid	8015B NM	8848
890-1344-16	C-732	Total/NA	Solid	8015B NM	8848
890-1344-17	C-733	Total/NA	Solid	8015B NM	8848
890-1344-18	C-734	Total/NA	Solid	8015B NM	8848
890-1344-19	C-735	Total/NA	Solid	8015B NM	8848
890-1344-20	C-736	Total/NA	Solid	8015B NM	8848
MB 880-8848/1-A	Method Blank	Total/NA	Solid	8015B NM	8848
LCS 880-8848/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8848
LCSD 880-8848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8848
890-1344-1 MS	C-717	Total/NA	Solid	8015B NM	8848
890-1344-1 MSD	C-717	Total/NA	Solid	8015B NM	8848

Analysis Batch: 8775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-63	C.779	Total/NA	Solid	8015B NM	8829
MB 880-8829/1-A	Method Blank	Total/NA	Solid	8015B NM	8829
LCS 880-8829/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8829
LCSD 880-8829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8829
890-1349-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	8829
890-1349-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8829

Prep Batch: 8829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-63	C.779	Total/NA	Solid	8015NM Prep	
MB 880-8829/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8829/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1349-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 8829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1349-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 8848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-1	C-717	Total/NA	Solid	8015NM Prep	
890-1344-2	C-718	Total/NA	Solid	8015NM Prep	
890-1344-3	C-719	Total/NA	Solid	8015NM Prep	
890-1344-4	C-720	Total/NA	Solid	8015NM Prep	
890-1344-5	C-721	Total/NA	Solid	8015NM Prep	
890-1344-6	C-722	Total/NA	Solid	8015NM Prep	
890-1344-7	C-723	Total/NA	Solid	8015NM Prep	
890-1344-8	C-724	Total/NA	Solid	8015NM Prep	
890-1344-9	C-725	Total/NA	Solid	8015NM Prep	
890-1344-10	C-726	Total/NA	Solid	8015NM Prep	
890-1344-11	C-727	Total/NA	Solid	8015NM Prep	
890-1344-12	C-728	Total/NA	Solid	8015NM Prep	
890-1344-13	C-729	Total/NA	Solid	8015NM Prep	
890-1344-14	C-730	Total/NA	Solid	8015NM Prep	
890-1344-15	C-731	Total/NA	Solid	8015NM Prep	
890-1344-16	C-732	Total/NA	Solid	8015NM Prep	
890-1344-17	C-733	Total/NA	Solid	8015NM Prep	
890-1344-18	C-734	Total/NA	Solid	8015NM Prep	
890-1344-19	C-735	Total/NA	Solid	8015NM Prep	
890-1344-20	C-736	Total/NA	Solid	8015NM Prep	
MB 880-8848/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8848/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1344-1 MS	C-717	Total/NA	Solid	8015NM Prep	
890-1344-1 MSD	C-717	Total/NA	Solid	8015NM Prep	

Prep Batch: 8856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-21	C-737	Total/NA	Solid	8015NM Prep	
890-1344-22	C-738	Total/NA	Solid	8015NM Prep	
890-1344-23	C-739	Total/NA	Solid	8015NM Prep	
890-1344-24	C-740	Total/NA	Solid	8015NM Prep	
890-1344-25	C-741	Total/NA	Solid	8015NM Prep	
890-1344-26	C-742	Total/NA	Solid	8015NM Prep	
890-1344-27	C-743	Total/NA	Solid	8015NM Prep	
890-1344-28	C-744	Total/NA	Solid	8015NM Prep	
890-1344-29	C-745	Total/NA	Solid	8015NM Prep	
890-1344-30	C-746	Total/NA	Solid	8015NM Prep	
890-1344-31	C-747	Total/NA	Solid	8015NM Prep	
890-1344-32	C-748	Total/NA	Solid	8015NM Prep	
890-1344-33	C-749	Total/NA	Solid	8015NM Prep	
890-1344-34	C-750	Total/NA	Solid	8015NM Prep	
890-1344-35	C-751	Total/NA	Solid	8015NM Prep	
890-1344-36	C-752	Total/NA	Solid	8015NM Prep	
890-1344-37	C-753	Total/NA	Solid	8015NM Prep	
890-1344-38	C-754	Total/NA	Solid	8015NM Prep	
890-1344-39	C-755	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 8856 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-40	C-756	Total/NA	Solid	8015NM Prep	
MB 880-8856/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8856/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8856/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1344-21 MS	C-737	Total/NA	Solid	8015NM Prep	
890-1344-21 MSD	C-737	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-21	C-737	Total/NA	Solid	8015B NM	8856
890-1344-22	C-738	Total/NA	Solid	8015B NM	8856
890-1344-23	C-739	Total/NA	Solid	8015B NM	8856
890-1344-24	C-740	Total/NA	Solid	8015B NM	8856
890-1344-25	C-741	Total/NA	Solid	8015B NM	8856
890-1344-26	C-742	Total/NA	Solid	8015B NM	8856
890-1344-27	C-743	Total/NA	Solid	8015B NM	8856
890-1344-28	C-744	Total/NA	Solid	8015B NM	8856
890-1344-29	C-745	Total/NA	Solid	8015B NM	8856
890-1344-30	C-746	Total/NA	Solid	8015B NM	8856
890-1344-31	C-747	Total/NA	Solid	8015B NM	8856
890-1344-32	C-748	Total/NA	Solid	8015B NM	8856
890-1344-33	C-749	Total/NA	Solid	8015B NM	8856
890-1344-34	C-750	Total/NA	Solid	8015B NM	8856
890-1344-35	C-751	Total/NA	Solid	8015B NM	8856
890-1344-36	C-752	Total/NA	Solid	8015B NM	8856
890-1344-37	C-753	Total/NA	Solid	8015B NM	8856
890-1344-38	C-754	Total/NA	Solid	8015B NM	8856
890-1344-39	C-755	Total/NA	Solid	8015B NM	8856
890-1344-40	C-756	Total/NA	Solid	8015B NM	8856
MB 880-8856/1-A	Method Blank	Total/NA	Solid	8015B NM	8856
LCS 880-8856/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8856
LCSD 880-8856/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8856
890-1344-21 MS	C-737	Total/NA	Solid	8015B NM	8856
890-1344-21 MSD	C-737	Total/NA	Solid	8015B NM	8856

Analysis Batch: 8871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-61	C-777	Total/NA	Solid	8015B NM	8877
890-1344-62	C-778	Total/NA	Solid	8015B NM	8877
MB 880-8877/1-A	Method Blank	Total/NA	Solid	8015B NM	8877
LCS 880-8877/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8877
LCSD 880-8877/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8877
880-6735-A-42-C MS	Matrix Spike	Total/NA	Solid	8015B NM	8877
880-6735-A-42-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8877

Analysis Batch: 8875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-41	C-757	Total/NA	Solid	8015B NM	8880
890-1344-42	C-758	Total/NA	Solid	8015B NM	8880
890-1344-43	C-759	Total/NA	Solid	8015B NM	8880
890-1344-44	C-760	Total/NA	Solid	8015B NM	8880

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8875 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-45	C-761	Total/NA	Solid	8015B NM	8880
890-1344-46	C-762	Total/NA	Solid	8015B NM	8880
890-1344-47	C-763	Total/NA	Solid	8015B NM	8880
890-1344-48	C-764	Total/NA	Solid	8015B NM	8880
890-1344-49	C-765	Total/NA	Solid	8015B NM	8880
890-1344-50	C-766	Total/NA	Solid	8015B NM	8880
890-1344-51	C-767	Total/NA	Solid	8015B NM	8880
890-1344-52	C-768	Total/NA	Solid	8015B NM	8880
890-1344-53	C-769	Total/NA	Solid	8015B NM	8880
890-1344-54	C-770	Total/NA	Solid	8015B NM	8880
890-1344-55	C-771	Total/NA	Solid	8015B NM	8880
890-1344-56	C-772	Total/NA	Solid	8015B NM	8880
890-1344-57	C-773	Total/NA	Solid	8015B NM	8880
890-1344-58	C-774	Total/NA	Solid	8015B NM	8880
890-1344-59	C-775	Total/NA	Solid	8015B NM	8880
890-1344-60	C-776	Total/NA	Solid	8015B NM	8880
MB 880-8880/1-A	Method Blank	Total/NA	Solid	8015B NM	8880
LCS 880-8880/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8880
LCSD 880-8880/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8880
890-1344-41 MS	C-757	Total/NA	Solid	8015B NM	8880
890-1344-41 MSD	C-757	Total/NA	Solid	8015B NM	8880

Prep Batch: 8877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-61	C-777	Total/NA	Solid	8015NM Prep	
890-1344-62	C-778	Total/NA	Solid	8015NM Prep	
MB 880-8877/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8877/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8877/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6735-A-42-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6735-A-42-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 8880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-41	C-757	Total/NA	Solid	8015NM Prep	
890-1344-42	C-758	Total/NA	Solid	8015NM Prep	
890-1344-43	C-759	Total/NA	Solid	8015NM Prep	
890-1344-44	C-760	Total/NA	Solid	8015NM Prep	
890-1344-45	C-761	Total/NA	Solid	8015NM Prep	
890-1344-46	C-762	Total/NA	Solid	8015NM Prep	
890-1344-47	C-763	Total/NA	Solid	8015NM Prep	
890-1344-48	C-764	Total/NA	Solid	8015NM Prep	
890-1344-49	C-765	Total/NA	Solid	8015NM Prep	
890-1344-50	C-766	Total/NA	Solid	8015NM Prep	
890-1344-51	C-767	Total/NA	Solid	8015NM Prep	
890-1344-52	C-768	Total/NA	Solid	8015NM Prep	
890-1344-53	C-769	Total/NA	Solid	8015NM Prep	
890-1344-54	C-770	Total/NA	Solid	8015NM Prep	
890-1344-55	C-771	Total/NA	Solid	8015NM Prep	
890-1344-56	C-772	Total/NA	Solid	8015NM Prep	
890-1344-57	C-773	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 8880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-58	C-774	Total/NA	Solid	8015NM Prep	
890-1344-59	C-775	Total/NA	Solid	8015NM Prep	
890-1344-60	C-776	Total/NA	Solid	8015NM Prep	
MB 880-8880/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8880/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8880/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1344-41 MS	C-757	Total/NA	Solid	8015NM Prep	
890-1344-41 MSD	C-757	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-1	C-717	Total/NA	Solid	8015 NM	
890-1344-2	C-718	Total/NA	Solid	8015 NM	
890-1344-3	C-719	Total/NA	Solid	8015 NM	
890-1344-4	C-720	Total/NA	Solid	8015 NM	
890-1344-5	C-721	Total/NA	Solid	8015 NM	
890-1344-6	C-722	Total/NA	Solid	8015 NM	
890-1344-7	C-723	Total/NA	Solid	8015 NM	
890-1344-8	C-724	Total/NA	Solid	8015 NM	
890-1344-9	C-725	Total/NA	Solid	8015 NM	
890-1344-10	C-726	Total/NA	Solid	8015 NM	
890-1344-11	C-727	Total/NA	Solid	8015 NM	
890-1344-12	C-728	Total/NA	Solid	8015 NM	
890-1344-13	C-729	Total/NA	Solid	8015 NM	
890-1344-14	C-730	Total/NA	Solid	8015 NM	
890-1344-15	C-731	Total/NA	Solid	8015 NM	
890-1344-16	C-732	Total/NA	Solid	8015 NM	
890-1344-17	C-733	Total/NA	Solid	8015 NM	
890-1344-18	C-734	Total/NA	Solid	8015 NM	
890-1344-19	C-735	Total/NA	Solid	8015 NM	
890-1344-20	C-736	Total/NA	Solid	8015 NM	
890-1344-21	C-737	Total/NA	Solid	8015 NM	
890-1344-22	C-738	Total/NA	Solid	8015 NM	
890-1344-23	C-739	Total/NA	Solid	8015 NM	
890-1344-24	C-740	Total/NA	Solid	8015 NM	
890-1344-25	C-741	Total/NA	Solid	8015 NM	
890-1344-26	C-742	Total/NA	Solid	8015 NM	
890-1344-27	C-743	Total/NA	Solid	8015 NM	
890-1344-28	C-744	Total/NA	Solid	8015 NM	
890-1344-29	C-745	Total/NA	Solid	8015 NM	
890-1344-30	C-746	Total/NA	Solid	8015 NM	
890-1344-31	C-747	Total/NA	Solid	8015 NM	
890-1344-32	C-748	Total/NA	Solid	8015 NM	
890-1344-33	C-749	Total/NA	Solid	8015 NM	
890-1344-34	C-750	Total/NA	Solid	8015 NM	
890-1344-35	C-751	Total/NA	Solid	8015 NM	
890-1344-36	C-752	Total/NA	Solid	8015 NM	
890-1344-37	C-753	Total/NA	Solid	8015 NM	
890-1344-38	C-754	Total/NA	Solid	8015 NM	
890-1344-39	C-755	Total/NA	Solid	8015 NM	
890-1344-40	C-756	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 9142 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-41	C-757	Total/NA	Solid	8015 NM	
890-1344-42	C-758	Total/NA	Solid	8015 NM	
890-1344-43	C-759	Total/NA	Solid	8015 NM	
890-1344-44	C-760	Total/NA	Solid	8015 NM	
890-1344-45	C-761	Total/NA	Solid	8015 NM	
890-1344-46	C-762	Total/NA	Solid	8015 NM	
890-1344-47	C-763	Total/NA	Solid	8015 NM	
890-1344-48	C-764	Total/NA	Solid	8015 NM	
890-1344-49	C-765	Total/NA	Solid	8015 NM	
890-1344-50	C-766	Total/NA	Solid	8015 NM	
890-1344-51	C-767	Total/NA	Solid	8015 NM	
890-1344-52	C-768	Total/NA	Solid	8015 NM	
890-1344-53	C-769	Total/NA	Solid	8015 NM	
890-1344-54	C-770	Total/NA	Solid	8015 NM	
890-1344-55	C-771	Total/NA	Solid	8015 NM	
890-1344-56	C-772	Total/NA	Solid	8015 NM	
890-1344-57	C-773	Total/NA	Solid	8015 NM	
890-1344-58	C-774	Total/NA	Solid	8015 NM	
890-1344-59	C-775	Total/NA	Solid	8015 NM	
890-1344-60	C-776	Total/NA	Solid	8015 NM	
890-1344-61	C-777	Total/NA	Solid	8015 NM	
890-1344-62	C-778	Total/NA	Solid	8015 NM	
890-1344-63	C.779	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 8729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-1	C-717	Soluble	Solid	DI Leach	
890-1344-2	C-718	Soluble	Solid	DI Leach	
890-1344-3	C-719	Soluble	Solid	DI Leach	
890-1344-4	C-720	Soluble	Solid	DI Leach	
890-1344-5	C-721	Soluble	Solid	DI Leach	
890-1344-6	C-722	Soluble	Solid	DI Leach	
890-1344-7	C-723	Soluble	Solid	DI Leach	
890-1344-8	C.724	Soluble	Solid	DI Leach	
MB 880-8729/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8729/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8729/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1333-A-28-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1333-A-28-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 8731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-9	C.725	Soluble	Solid	DI Leach	
890-1344-10	C.726	Soluble	Solid	DI Leach	
890-1344-11	C.727	Soluble	Solid	DI Leach	
890-1344-12	C.728	Soluble	Solid	DI Leach	
890-1344-13	C.729	Soluble	Solid	DI Leach	
890-1344-14	C.730	Soluble	Solid	DI Leach	
MB 880-8731/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8731 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-8731/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8731/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6662-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-6662-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-1347-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1347-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 8736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-15	C-731	Soluble	Solid	DI Leach	
890-1344-16	C-732	Soluble	Solid	DI Leach	
890-1344-17	C-733	Soluble	Solid	DI Leach	
890-1344-18	C-734	Soluble	Solid	DI Leach	
890-1344-19	C-735	Soluble	Solid	DI Leach	
890-1344-20	C-736	Soluble	Solid	DI Leach	
890-1344-21	C-737	Soluble	Solid	DI Leach	
890-1344-22	C-738	Soluble	Solid	DI Leach	
890-1344-23	C-739	Soluble	Solid	DI Leach	
890-1344-24	C-740	Soluble	Solid	DI Leach	
890-1344-25	C-741	Soluble	Solid	DI Leach	
890-1344-26	C-742	Soluble	Solid	DI Leach	
890-1344-27	C-743	Soluble	Solid	DI Leach	
890-1344-28	C-744	Soluble	Solid	DI Leach	
890-1344-29	C-745	Soluble	Solid	DI Leach	
890-1344-30	C-746	Soluble	Solid	DI Leach	
890-1344-31	C-747	Soluble	Solid	DI Leach	
890-1344-32	C-748	Soluble	Solid	DI Leach	
MB 880-8736/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8736/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8736/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1344-23 MS	C-739	Soluble	Solid	DI Leach	
890-1344-23 MSD	C-739	Soluble	Solid	DI Leach	

Leach Batch: 8737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-53	C-769	Soluble	Solid	DI Leach	
890-1344-54	C-770	Soluble	Solid	DI Leach	
890-1344-55	C-771	Soluble	Solid	DI Leach	
890-1344-56	C-772	Soluble	Solid	DI Leach	
890-1344-57	C-773	Soluble	Solid	DI Leach	
890-1344-58	C-774	Soluble	Solid	DI Leach	
890-1344-59	C-775	Soluble	Solid	DI Leach	
890-1344-60	C-776	Soluble	Solid	DI Leach	
890-1344-61	C-777	Soluble	Solid	DI Leach	
890-1344-62	C-778	Soluble	Solid	DI Leach	
890-1344-63	C-779	Soluble	Solid	DI Leach	
MB 880-8737/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8737/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8737/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1344-61 MS	C-777	Soluble	Solid	DI Leach	
890-1344-61 MSD	C-777	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 8836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-53	C-769	Soluble	Solid	300.0	8737
890-1344-54	C-770	Soluble	Solid	300.0	8737
890-1344-55	C-771	Soluble	Solid	300.0	8737
890-1344-56	C-772	Soluble	Solid	300.0	8737
890-1344-57	C-773	Soluble	Solid	300.0	8737
890-1344-58	C-774	Soluble	Solid	300.0	8737
890-1344-59	C-775	Soluble	Solid	300.0	8737
890-1344-60	C-776	Soluble	Solid	300.0	8737
890-1344-61	C-777	Soluble	Solid	300.0	8737
890-1344-62	C-778	Soluble	Solid	300.0	8737
890-1344-63	C-779	Soluble	Solid	300.0	8737
MB 880-8737/1-A	Method Blank	Soluble	Solid	300.0	8737
LCS 880-8737/2-A	Lab Control Sample	Soluble	Solid	300.0	8737
LCSD 880-8737/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8737
890-1344-61 MS	C-777	Soluble	Solid	300.0	8737
890-1344-61 MSD	C-777	Soluble	Solid	300.0	8737

Analysis Batch: 8838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-1	C-717	Soluble	Solid	300.0	8729
890-1344-2	C-718	Soluble	Solid	300.0	8729
890-1344-3	C-719	Soluble	Solid	300.0	8729
890-1344-4	C-720	Soluble	Solid	300.0	8729
890-1344-5	C-721	Soluble	Solid	300.0	8729
890-1344-6	C-722	Soluble	Solid	300.0	8729
890-1344-7	C-723	Soluble	Solid	300.0	8729
890-1344-8	C-724	Soluble	Solid	300.0	8729
MB 880-8729/1-A	Method Blank	Soluble	Solid	300.0	8729
LCS 880-8729/2-A	Lab Control Sample	Soluble	Solid	300.0	8729
LCSD 880-8729/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8729
890-1333-A-28-D MS	Matrix Spike	Soluble	Solid	300.0	8729
890-1333-A-28-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8729

Analysis Batch: 8851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-9	C-725	Soluble	Solid	300.0	8731
890-1344-10	C-726	Soluble	Solid	300.0	8731
890-1344-11	C-727	Soluble	Solid	300.0	8731
890-1344-12	C-728	Soluble	Solid	300.0	8731
890-1344-13	C-729	Soluble	Solid	300.0	8731
890-1344-14	C-730	Soluble	Solid	300.0	8731
MB 880-8731/1-A	Method Blank	Soluble	Solid	300.0	8731
LCS 880-8731/2-A	Lab Control Sample	Soluble	Solid	300.0	8731
LCSD 880-8731/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8731
880-6662-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	8731
880-6662-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8731
890-1347-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	8731
890-1347-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8731

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 8938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-15	C-731	Soluble	Solid	300.0	8736
890-1344-16	C-732	Soluble	Solid	300.0	8736
890-1344-17	C-733	Soluble	Solid	300.0	8736
890-1344-18	C-734	Soluble	Solid	300.0	8736
890-1344-19	C-735	Soluble	Solid	300.0	8736
890-1344-20	C-736	Soluble	Solid	300.0	8736
890-1344-21	C-737	Soluble	Solid	300.0	8736
890-1344-22	C-738	Soluble	Solid	300.0	8736
890-1344-23	C-739	Soluble	Solid	300.0	8736
890-1344-24	C-740	Soluble	Solid	300.0	8736
890-1344-25	C-741	Soluble	Solid	300.0	8736
890-1344-26	C-742	Soluble	Solid	300.0	8736
890-1344-27	C-743	Soluble	Solid	300.0	8736
890-1344-28	C-744	Soluble	Solid	300.0	8736
890-1344-29	C-745	Soluble	Solid	300.0	8736
890-1344-30	C-746	Soluble	Solid	300.0	8736
890-1344-31	C-747	Soluble	Solid	300.0	8736
890-1344-32	C-748	Soluble	Solid	300.0	8736
MB 880-8736/1-A	Method Blank	Soluble	Solid	300.0	8736
LCS 880-8736/2-A	Lab Control Sample	Soluble	Solid	300.0	8736
LCSD 880-8736/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8736
890-1344-23 MS	C-739	Soluble	Solid	300.0	8736
890-1344-23 MSD	C-739	Soluble	Solid	300.0	8736

Leach Batch: 9056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-33	C-749	Soluble	Solid	DI Leach	
890-1344-34	C-750	Soluble	Solid	DI Leach	
890-1344-35	C-751	Soluble	Solid	DI Leach	
890-1344-36	C-752	Soluble	Solid	DI Leach	
890-1344-37	C-753	Soluble	Solid	DI Leach	
890-1344-38	C-754	Soluble	Solid	DI Leach	
890-1344-39	C-755	Soluble	Solid	DI Leach	
890-1344-40	C-756	Soluble	Solid	DI Leach	
890-1344-41	C-757	Soluble	Solid	DI Leach	
890-1344-42	C-758	Soluble	Solid	DI Leach	
890-1344-43	C-759	Soluble	Solid	DI Leach	
890-1344-44	C-760	Soluble	Solid	DI Leach	
890-1344-45	C-761	Soluble	Solid	DI Leach	
890-1344-46	C-762	Soluble	Solid	DI Leach	
890-1344-47	C-763	Soluble	Solid	DI Leach	
890-1344-48	C-764	Soluble	Solid	DI Leach	
890-1344-49	C-765	Soluble	Solid	DI Leach	
890-1344-50	C-766	Soluble	Solid	DI Leach	
890-1344-51	C-767	Soluble	Solid	DI Leach	
890-1344-52	C-768	Soluble	Solid	DI Leach	
MB 880-9056/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9056/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9056/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1344-33 MS	C-749	Soluble	Solid	DI Leach	
890-1344-33 MSD	C-749	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 9056 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-43 MS	C-759	Soluble	Solid	DI Leach	
890-1344-43 MSD	C-759	Soluble	Solid	DI Leach	

Analysis Batch: 9154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1344-33	C-749	Soluble	Solid	300.0	9056
890-1344-34	C-750	Soluble	Solid	300.0	9056
890-1344-35	C-751	Soluble	Solid	300.0	9056
890-1344-36	C-752	Soluble	Solid	300.0	9056
890-1344-37	C-753	Soluble	Solid	300.0	9056
890-1344-38	C-754	Soluble	Solid	300.0	9056
890-1344-39	C-755	Soluble	Solid	300.0	9056
890-1344-40	C-756	Soluble	Solid	300.0	9056
890-1344-41	C-757	Soluble	Solid	300.0	9056
890-1344-42	C-758	Soluble	Solid	300.0	9056
890-1344-43	C-759	Soluble	Solid	300.0	9056
890-1344-44	C-760	Soluble	Solid	300.0	9056
890-1344-45	C-761	Soluble	Solid	300.0	9056
890-1344-46	C-762	Soluble	Solid	300.0	9056
890-1344-47	C-763	Soluble	Solid	300.0	9056
890-1344-48	C-764	Soluble	Solid	300.0	9056
890-1344-49	C-765	Soluble	Solid	300.0	9056
890-1344-50	C-766	Soluble	Solid	300.0	9056
890-1344-51	C-767	Soluble	Solid	300.0	9056
890-1344-52	C-768	Soluble	Solid	300.0	9056
MB 880-9056/1-A	Method Blank	Soluble	Solid	300.0	9056
LCS 880-9056/2-A	Lab Control Sample	Soluble	Solid	300.0	9056
LCSD 880-9056/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9056
890-1344-33 MS	C-749	Soluble	Solid	300.0	9056
890-1344-33 MSD	C-749	Soluble	Solid	300.0	9056
890-1344-43 MS	C-759	Soluble	Solid	300.0	9056
890-1344-43 MSD	C-759	Soluble	Solid	300.0	9056

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-717

Lab Sample ID: 890-1344-1

Date Collected: 09/30/21 09:17

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 12:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/04/21 22:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 19:19	CH	XEN MID

Client Sample ID: C-718

Lab Sample ID: 890-1344-2

Date Collected: 09/30/21 09:18

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 12:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/04/21 23:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 23:20	CH	XEN MID

Client Sample ID: C-719

Lab Sample ID: 890-1344-3

Date Collected: 09/30/21 09:19

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 13:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/04/21 23:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 23:26	CH	XEN MID

Client Sample ID: C-720

Lab Sample ID: 890-1344-4

Date Collected: 09/30/21 09:20

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 13:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-720**Date Collected: 09/30/21 09:20****Date Received: 09/30/21 15:22****Lab Sample ID: 890-1344-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 00:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 23:31	CH	XEN MID

Client Sample ID: C-721**Date Collected: 09/30/21 09:21****Date Received: 09/30/21 15:22****Lab Sample ID: 890-1344-5****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 14:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 00:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 23:37	CH	XEN MID

Client Sample ID: C-722**Date Collected: 09/30/21 09:22****Date Received: 09/30/21 15:22****Lab Sample ID: 890-1344-6****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 14:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 00:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 23:43	CH	XEN MID

Client Sample ID: C-723**Date Collected: 09/30/21 09:23****Date Received: 09/30/21 15:22****Lab Sample ID: 890-1344-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 15:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 01:13	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-723

Date Collected: 09/30/21 09:23

Date Received: 09/30/21 15:22

Lab Sample ID: 890-1344-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 23:48	CH	XEN MID

Client Sample ID: C.724

Date Collected: 09/30/21 09:24

Date Received: 09/30/21 15:22

Lab Sample ID: 890-1344-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 15:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 01:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8729	10/01/21 12:00	CA	XEN MID
Soluble	Analysis	300.0		1			8838	10/04/21 23:54	CH	XEN MID

Client Sample ID: C.725

Date Collected: 09/30/21 09:25

Date Received: 09/30/21 15:22

Lab Sample ID: 890-1344-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 17:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 01:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8731	10/01/21 12:05	CA	XEN MID
Soluble	Analysis	300.0		1			8851	10/05/21 09:01	CH	XEN MID

Client Sample ID: C.726

Date Collected: 09/30/21 09:26

Date Received: 09/30/21 15:22

Lab Sample ID: 890-1344-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 17:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 02:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8731	10/01/21 12:05	CA	XEN MID
Soluble	Analysis	300.0		1			8851	10/05/21 09:07	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C.727

Lab Sample ID: 890-1344-11

Date Collected: 09/30/21 09:27

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 18:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 02:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8731	10/01/21 12:05	CA	XEN MID
Soluble	Analysis	300.0		5			8851	10/05/21 09:26	CH	XEN MID

Client Sample ID: C.728

Lab Sample ID: 890-1344-12

Date Collected: 09/30/21 09:28

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 18:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 03:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8731	10/01/21 12:05	CA	XEN MID
Soluble	Analysis	300.0		1			8851	10/05/21 09:32	CH	XEN MID

Client Sample ID: C.729

Lab Sample ID: 890-1344-13

Date Collected: 09/30/21 09:29

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 19:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 03:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8731	10/01/21 12:05	CA	XEN MID
Soluble	Analysis	300.0		1			8851	10/05/21 09:39	CH	XEN MID

Client Sample ID: C.730

Lab Sample ID: 890-1344-14

Date Collected: 09/30/21 09:30

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 19:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C.730

Lab Sample ID: 890-1344-14

Date Collected: 09/30/21 09:30

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 03:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8731	10/01/21 12:05	CA	XEN MID
Soluble	Analysis	300.0		1			8851	10/05/21 09:45	CH	XEN MID

Client Sample ID: C.731

Lab Sample ID: 890-1344-15

Date Collected: 09/30/21 09:31

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 19:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 04:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 13:46	CH	XEN MID

Client Sample ID: C-732

Lab Sample ID: 890-1344-16

Date Collected: 09/30/21 09:32

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 20:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 04:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 13:53	CH	XEN MID

Client Sample ID: C-733

Lab Sample ID: 890-1344-17

Date Collected: 09/30/21 09:33

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 20:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 04:54	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-733**Lab Sample ID: 890-1344-17****Date Collected: 09/30/21 09:33****Matrix: Solid****Date Received: 09/30/21 15:22**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 13:59	CH	XEN MID

Client Sample ID: C-734**Lab Sample ID: 890-1344-18****Date Collected: 09/30/21 09:34****Matrix: Solid****Date Received: 09/30/21 15:22**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 21:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 05:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 14:18	CH	XEN MID

Client Sample ID: C-735**Lab Sample ID: 890-1344-19****Date Collected: 09/30/21 09:35****Matrix: Solid****Date Received: 09/30/21 15:22**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 12:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 05:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 17:08	CH	XEN MID

Client Sample ID: C-736**Lab Sample ID: 890-1344-20****Date Collected: 09/30/21 09:36****Matrix: Solid****Date Received: 09/30/21 15:22**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 13:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8848	10/04/21 14:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8769	10/05/21 05:55	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 14:30	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-737

Lab Sample ID: 890-1344-21

Date Collected: 09/30/21 09:37

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 13:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 11:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 14:37	CH	XEN MID

Client Sample ID: C-738

Lab Sample ID: 890-1344-22

Date Collected: 09/30/21 09:38

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 14:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 12:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 14:43	CH	XEN MID

Client Sample ID: C-739

Lab Sample ID: 890-1344-23

Date Collected: 09/30/21 09:39

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 14:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 12:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 14:49	CH	XEN MID

Client Sample ID: C-740

Lab Sample ID: 890-1344-24

Date Collected: 09/30/21 09:40

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 14:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-740

Lab Sample ID: 890-1344-24

Date Collected: 09/30/21 09:40

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 13:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		5			8938	10/05/21 18:23	CH	XEN MID

Client Sample ID: C-741

Lab Sample ID: 890-1344-25

Date Collected: 09/30/21 09:41

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 15:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 13:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 16:11	CH	XEN MID

Client Sample ID: C-742

Lab Sample ID: 890-1344-26

Date Collected: 09/30/21 09:42

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 15:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 14:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 15:08	CH	XEN MID

Client Sample ID: C-743

Lab Sample ID: 890-1344-27

Date Collected: 09/30/21 09:43

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 15:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 14:25	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-743**Lab Sample ID: 890-1344-27****Date Collected: 09/30/21 09:43****Matrix: Solid****Date Received: 09/30/21 15:22**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 15:14	CH	XEN MID

Client Sample ID: C-744**Lab Sample ID: 890-1344-28****Date Collected: 09/30/21 09:44****Matrix: Solid****Date Received: 09/30/21 15:22**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 16:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 14:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 15:33	CH	XEN MID

Client Sample ID: C-745**Lab Sample ID: 890-1344-29****Date Collected: 09/30/21 09:45****Matrix: Solid****Date Received: 09/30/21 15:22**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 17:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 15:39	CH	XEN MID

Client Sample ID: C-746**Lab Sample ID: 890-1344-30****Date Collected: 09/30/21 09:46****Matrix: Solid****Date Received: 09/30/21 15:22**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 17:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 15:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 15:46	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-747

Lab Sample ID: 890-1344-31

Date Collected: 09/30/21 09:47

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 18:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 17:14	CH	XEN MID

Client Sample ID: C-748

Lab Sample ID: 890-1344-32

Date Collected: 09/30/21 09:48

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 18:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 16:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8736	10/01/21 12:16	CA	XEN MID
Soluble	Analysis	300.0		1			8938	10/05/21 15:58	CH	XEN MID

Client Sample ID: C-749

Lab Sample ID: 890-1344-33

Date Collected: 09/30/21 09:59

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 18:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 16:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			9154	10/09/21 00:04	CH	XEN MID

Client Sample ID: C-750

Lab Sample ID: 890-1344-34

Date Collected: 09/30/21 09:50

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 19:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-750

Lab Sample ID: 890-1344-34

Date Collected: 09/30/21 09:50

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 17:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 00:21	CH	XEN MID

Client Sample ID: C-751

Lab Sample ID: 890-1344-35

Date Collected: 09/30/21 09:52

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 19:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 17:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 00:27	CH	XEN MID

Client Sample ID: C-752

Lab Sample ID: 890-1344-36

Date Collected: 09/30/21 09:52

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 19:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 18:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 00:32	CH	XEN MID

Client Sample ID: C-753

Lab Sample ID: 890-1344-37

Date Collected: 09/30/21 09:53

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 20:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 18:22	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-753

Lab Sample ID: 890-1344-37

Date Collected: 09/30/21 09:53

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 00:38	CH	XEN MID

Client Sample ID: C-754

Lab Sample ID: 890-1344-38

Date Collected: 09/30/21 09:54

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8834	10/04/21 13:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8964	10/06/21 20:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9000	10/06/21 15:40	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 18:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 00:55	CH	XEN MID

Client Sample ID: C-755

Lab Sample ID: 890-1344-39

Date Collected: 09/30/21 09:55

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 18:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 01:00	CH	XEN MID

Client Sample ID: C-756

Lab Sample ID: 890-1344-40

Date Collected: 09/30/21 09:56

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 18:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8856	10/04/21 14:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8869	10/05/21 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 01:06	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-757

Lab Sample ID: 890-1344-41

Date Collected: 09/30/21 09:57

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 18:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 11:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 01:12	CH	XEN MID

Client Sample ID: C-758

Lab Sample ID: 890-1344-42

Date Collected: 09/30/21 09:58

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 19:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 12:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 01:17	CH	XEN MID

Client Sample ID: C-759

Lab Sample ID: 890-1344-43

Date Collected: 09/30/21 13:09

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 19:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 13:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 01:23	CH	XEN MID

Client Sample ID: C-760

Lab Sample ID: 890-1344-44

Date Collected: 09/30/21 13:10

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 19:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-760

Lab Sample ID: 890-1344-44

Date Collected: 09/30/21 13:10

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 13:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 01:40	CH	XEN MID

Client Sample ID: C-761

Lab Sample ID: 890-1344-45

Date Collected: 09/30/21 13:11

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 20:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 14:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 01:45	CH	XEN MID

Client Sample ID: C-762

Lab Sample ID: 890-1344-46

Date Collected: 09/30/21 13:12

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 20:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 02:02	CH	XEN MID

Client Sample ID: C-763

Lab Sample ID: 890-1344-47

Date Collected: 09/30/21 13:13

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 20:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 14:48	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-763

Lab Sample ID: 890-1344-47

Date Collected: 09/30/21 13:13

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 02:08	CH	XEN MID

Client Sample ID: C-764

Lab Sample ID: 890-1344-48

Date Collected: 09/30/21 13:14

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 21:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 15:10	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 02:14	CH	XEN MID

Client Sample ID: C-765

Lab Sample ID: 890-1344-49

Date Collected: 09/30/21 13:15

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 22:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 15:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 02:19	CH	XEN MID

Client Sample ID: C-766

Lab Sample ID: 890-1344-50

Date Collected: 09/30/21 13:16

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 23:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 15:54	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 02:25	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-767

Lab Sample ID: 890-1344-51

Date Collected: 09/30/21 13:17

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 23:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 16:37	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 02:30	CH	XEN MID

Client Sample ID: C-768

Lab Sample ID: 890-1344-52

Date Collected: 09/30/21 13:18

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/08/21 23:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 16:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9056	10/07/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			9154	10/09/21 02:36	CH	XEN MID

Client Sample ID: C-769

Lab Sample ID: 890-1344-53

Date Collected: 09/30/21 13:19

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/09/21 00:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 17:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 09:09	CH	XEN MID

Client Sample ID: C-770

Lab Sample ID: 890-1344-54

Date Collected: 09/30/21 13:20

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/09/21 00:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-770

Lab Sample ID: 890-1344-54

Date Collected: 09/30/21 13:20

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 17:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 09:15	CH	XEN MID

Client Sample ID: C-771

Lab Sample ID: 890-1344-55

Date Collected: 09/30/21 13:21

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/09/21 00:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 18:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 09:20	CH	XEN MID

Client Sample ID: C-772

Lab Sample ID: 890-1344-56

Date Collected: 09/30/21 13:22

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/09/21 01:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 18:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 09:37	CH	XEN MID

Client Sample ID: C-773

Lab Sample ID: 890-1344-57

Date Collected: 09/30/21 13:23

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/09/21 01:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 18:46	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-773

Lab Sample ID: 890-1344-57

Date Collected: 09/30/21 13:23

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 10:00	CH	XEN MID

Client Sample ID: C-774

Lab Sample ID: 890-1344-58

Date Collected: 09/30/21 13:24

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8835	10/04/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/09/21 01:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 19:08	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 10:05	CH	XEN MID

Client Sample ID: C-775

Lab Sample ID: 890-1344-59

Date Collected: 09/30/21 13:25

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8974	10/06/21 10:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/09/21 22:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 19:29	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 10:34	CH	XEN MID

Client Sample ID: C-776

Lab Sample ID: 890-1344-60

Date Collected: 09/30/21 13:26

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8974	10/06/21 10:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/09/21 22:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8880	10/05/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8875	10/05/21 19:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 10:39	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Client Sample ID: C-777

Lab Sample ID: 890-1344-61

Date Collected: 09/30/21 13:27

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8974	10/06/21 10:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/09/21 22:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 10:45	CH	XEN MID

Client Sample ID: C-778

Lab Sample ID: 890-1344-62

Date Collected: 09/30/21 13:28

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8974	10/06/21 10:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/09/21 23:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 16:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 11:02	CH	XEN MID

Client Sample ID: C.779

Lab Sample ID: 890-1344-63

Date Collected: 09/30/21 13:29

Matrix: Solid

Date Received: 09/30/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8974	10/06/21 10:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/09/21 23:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/08/21 16:35	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9142	10/08/21 18:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8829	10/04/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8775	10/05/21 06:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 11:07	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1344-1	C-717	Solid	09/30/21 09:17	09/30/21 15:22
890-1344-2	C-718	Solid	09/30/21 09:18	09/30/21 15:22
890-1344-3	C-719	Solid	09/30/21 09:19	09/30/21 15:22
890-1344-4	C-720	Solid	09/30/21 09:20	09/30/21 15:22
890-1344-5	C-721	Solid	09/30/21 09:21	09/30/21 15:22
890-1344-6	C-722	Solid	09/30/21 09:22	09/30/21 15:22
890-1344-7	C-723	Solid	09/30/21 09:23	09/30/21 15:22
890-1344-8	C-724	Solid	09/30/21 09:24	09/30/21 15:22
890-1344-9	C-725	Solid	09/30/21 09:25	09/30/21 15:22
890-1344-10	C-726	Solid	09/30/21 09:26	09/30/21 15:22
890-1344-11	C-727	Solid	09/30/21 09:27	09/30/21 15:22
890-1344-12	C-728	Solid	09/30/21 09:28	09/30/21 15:22
890-1344-13	C-729	Solid	09/30/21 09:29	09/30/21 15:22
890-1344-14	C-730	Solid	09/30/21 09:30	09/30/21 15:22
890-1344-15	C-731	Solid	09/30/21 09:31	09/30/21 15:22
890-1344-16	C-732	Solid	09/30/21 09:32	09/30/21 15:22
890-1344-17	C-733	Solid	09/30/21 09:33	09/30/21 15:22
890-1344-18	C-734	Solid	09/30/21 09:34	09/30/21 15:22
890-1344-19	C-735	Solid	09/30/21 09:35	09/30/21 15:22
890-1344-20	C-736	Solid	09/30/21 09:36	09/30/21 15:22
890-1344-21	C-737	Solid	09/30/21 09:37	09/30/21 15:22
890-1344-22	C-738	Solid	09/30/21 09:38	09/30/21 15:22
890-1344-23	C-739	Solid	09/30/21 09:39	09/30/21 15:22
890-1344-24	C-740	Solid	09/30/21 09:40	09/30/21 15:22
890-1344-25	C-741	Solid	09/30/21 09:41	09/30/21 15:22
890-1344-26	C-742	Solid	09/30/21 09:42	09/30/21 15:22
890-1344-27	C-743	Solid	09/30/21 09:43	09/30/21 15:22
890-1344-28	C-744	Solid	09/30/21 09:44	09/30/21 15:22
890-1344-29	C-745	Solid	09/30/21 09:45	09/30/21 15:22
890-1344-30	C-746	Solid	09/30/21 09:46	09/30/21 15:22
890-1344-31	C-747	Solid	09/30/21 09:47	09/30/21 15:22
890-1344-32	C-748	Solid	09/30/21 09:48	09/30/21 15:22
890-1344-33	C-749	Solid	09/30/21 09:59	09/30/21 15:22
890-1344-34	C-750	Solid	09/30/21 09:50	09/30/21 15:22
890-1344-35	C-751	Solid	09/30/21 09:52	09/30/21 15:22
890-1344-36	C-752	Solid	09/30/21 09:52	09/30/21 15:22
890-1344-37	C-753	Solid	09/30/21 09:53	09/30/21 15:22
890-1344-38	C-754	Solid	09/30/21 09:54	09/30/21 15:22
890-1344-39	C-755	Solid	09/30/21 09:55	09/30/21 15:22
890-1344-40	C-756	Solid	09/30/21 09:56	09/30/21 15:22
890-1344-41	C-757	Solid	09/30/21 09:57	09/30/21 15:22
890-1344-42	C-758	Solid	09/30/21 09:58	09/30/21 15:22
890-1344-43	C-759	Solid	09/30/21 13:09	09/30/21 15:22
890-1344-44	C-760	Solid	09/30/21 13:10	09/30/21 15:22
890-1344-45	C-761	Solid	09/30/21 13:11	09/30/21 15:22
890-1344-46	C-762	Solid	09/30/21 13:12	09/30/21 15:22
890-1344-47	C-763	Solid	09/30/21 13:13	09/30/21 15:22
890-1344-48	C-764	Solid	09/30/21 13:14	09/30/21 15:22
890-1344-49	C-765	Solid	09/30/21 13:15	09/30/21 15:22
890-1344-50	C-766	Solid	09/30/21 13:16	09/30/21 15:22
890-1344-51	C-767	Solid	09/30/21 13:17	09/30/21 15:22
890-1344-52	C-768	Solid	09/30/21 13:18	09/30/21 15:22
890-1344-53	C-769	Solid	09/30/21 13:19	09/30/21 15:22
890-1344-54	C-770	Solid	09/30/21 13:20	09/30/21 15:22
890-1344-55	C-771	Solid	09/30/21 13:21	09/30/21 15:22

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1344-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1344-56	C-772	Solid	09/30/21 13:22	09/30/21 15:22
890-1344-57	C-773	Solid	09/30/21 13:23	09/30/21 15:22
890-1344-58	C-774	Solid	09/30/21 13:24	09/30/21 15:22
890-1344-59	C-775	Solid	09/30/21 13:25	09/30/21 15:22
890-1344-60	C-776	Solid	09/30/21 13:26	09/30/21 15:22
890-1344-61	C-777	Solid	09/30/21 13:27	09/30/21 15:22
890-1344-62	C-778	Solid	09/30/21 13:28	09/30/21 15:22
890-1344-63	C-779	Solid	09/30/21 13:29	09/30/21 15:22

No. 2210

CHAIN-OF-CUSTODY

DATE: 9/30/2021 PAGE 4 OF 5
 PO#: _____ LAB WORK ORDER#: _____
 PROJECT LOCATION OR NAME: Palmer Ast
 LAI PROJECT #: 21-0105-02 COLLECTOR: DSS

507 N. Martenfeld, Ste. 202
 Midland, TX 79701
 432-687-0901



Data Reported to:

TRRP report? ☐ Yes ☒ No	TIME ZONE Time zone/State	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	# of Containers	PRESERVATION			Matrix	Time	Date	Lab #	Field Sample ID
					HCl	HNO ₃	H ₂ SO ₄ / NaOH					
				1				S	1312	9/30/21		C-762
									1313			C-763
									1314			C-764
									1315			C-765
									1316			C-766
									1317			C-767
									1318			C-768
									1319			C-769
									1320			C-770
									1321			C-771
									1322			C-772
									1323			C-773
									1324			C-774
									1325			C-775
									1326			C-776
TOTAL 15												

RELINQUISHED BY (Signature)		DATE/TIME	RECEIVED BY (Signature)		DATE/TIME
<i>[Signature]</i>		9/30/21 522	<i>[Signature]</i>		
RELINQUISHED BY (Signature)		DATE/TIME	RECEIVED BY (Signature)		DATE/TIME
RELINQUISHED BY (Signature)		DATE/TIME	RECEIVED BY (Signature)		DATE/TIME
LABORATORY			XEROX		

LABORATORY USE ONLY:

RECEIVING TEMP 13.2 THERM# T-111-007
 CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

TURN AROUND TIME

NORMAL ☒
 1 DAY ☐
 2 DAY ☐
 OTHER ☐

No. 2209

CHAIN-OF-CUSTODY

DATE: 9/30/2021 PAGE 3 OF 5
 PO#: _____ LAB WORK ORDER#: _____
 PROJECT LOCATION OR NAME: Palmview A51
 LAI PROJECT #: 21-0105-02 COLLECTOR: ASG

507 N. Marienfeld, Ste. 202
 Midland, TX 79701
 432-687-0901

Arson & Associates, Inc.
 Environmental Consultants

Data Reported to

TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES
					HCl	HNO ₃	H ₂ SO ₄	NaOH		
TIME ZONE Time zone/State	Lab #	Date	Time							
WST/ NM		9/30/21	0947	1						
C-747			0944		X					
C-748			0959							
C-749			0950							
C-750			0952							
C-751			0952							
C-752			0953							
C-753			0954							
C-754			0955							
C-755			0956							
C-756			0957							
C-757			0958							
C-758			1309							
C-759			1310							
C-760			131							
C-761										
TOTAL	15									

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
<i>[Signature]</i>	9/30/21 1512	<i>[Signature]</i>	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
LABORATORY: <u>X11000</u>			

LABORATORY USE ONLY:

RECEIVING TEMP 13.2 THERM# T-NM-002
 CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

TURN AROUND TIME

NORMAL ☒
 1 DAY ☐
 2 DAY ☐
 OTHER ☐

No. 2207

CHAIN-OF-CUSTODY

Carson & Associates, Inc. Environmental Consultants 507 N. Marienfeld, Ste. 202 Midland, TX 79701 432-687-0901				DATE: <u>9/30/2021</u> PAGE <u>1</u> OF <u>5</u> PO#: _____ LAB WORK ORDER#: _____ PROJECT LOCATION OR NAME: <u>Pulmic Ast</u> LAI PROJECT #: <u>21-0105-02</u> COLLECTOR: <u>ASG</u>			
Data Reported to:		PRESERVATION		ANALYSES		FIELD NOTES	
TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	# of Containers	HCl	HNO ₃	H ₂ SO ₄ / NaOH	UNPRESERVED
TIME ZONE Time zone/State	Lab #	Date	Time	Matrix			
MST/MDT							
Field Sample ID							
C-717		9/30/21	0917	S	X		X
C-718			0918				
C-719			0919				
C-720			0920				
C-721			0921				
C-722			0922				
C-723			0923				
C-724			0924				
C-725			0925				
C-726			0926				
C-727			0927				
C-728			0928				
C-729			0929				
C-730			0930				
C-731			0931				
TOTAL	15						
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME	
<i>[Signature]</i>		9/30/21 1522		<i>[Signature]</i>		9/30/21 1522	
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME	
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME	
LABORATORY		XERO		TURN AROUND TIME		LABORATORY USE ONLY:	
				NORMAL ☒		RECEIVING TEMP <u>13.2</u> THERM# <u>T-111-007</u>	
				1 DAY ☐		CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED	
				2 DAY ☐		☐ CARRIER BILL # _____	
				OTHER ☐		☒ HAND DELIVERED	

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record



eurofins
Environment Testing
America

Client Information (Sub Contract Lab)				Sampler		Lab PM		Carrier Tracking No(s)		COC No	
Client Contact:				Phone:		Taylor Holly		State of Origin		Page: 890-440 1	
Shipping/Receiving				E-Mail		holly.taylor@eurofins.com		New Mexico		Page 1 of 7	
Company: Eurofins Xenco				Accreditations Required (See note):		NELAP - Louisiana, NELAP - Texas		Job #:		890-1344-1	
Address: 1211 W Florida Ave,				Due Date Requested		10/6/2021		Preservation Codes		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amethor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
City: Midland				TAT Requested (days):		7		Analysis Requested			
State Zip: TX, 79701				PO #:							
Phone: 432-704-5440(Tel)				WO #:							
Email:				Project #:		89000025					
Project Name: palmo ast				SSOW#:							
Site:				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=wastwater, BT=tissue, A=air)	
Sample Identification - Client ID (Lab ID)				Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8015MOD_NM/8015NM_S_Prep (MOD) Full TPH		300_ORGFm_28D/DI_LEACH Chloride	
C-717 (890-1344-1)				9/30/21		09 17		Solid		X	
C-718 (890-1344-2)				9/30/21		09 18		Solid		X	
C-719 (890-1344-3)				9/30/21		09 19		Solid		X	
C-720 (890-1344-4)				9/30/21		09 20		Solid		X	
C-721 (890-1344-5)				9/30/21		09 21		Solid		X	
C-722 (890-1344-6)				9/30/21		09 22		Solid		X	
C-723 (890-1344-7)				9/30/21		09 23		Solid		X	
C-724 (890-1344-8)				9/30/21		09 24		Solid		X	
C-725 (890-1344-9)				9/30/21		09 25		Solid		X	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/assessments being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested I II III IV Other (Specify)				Primary Deliverable Rank 2							
Empty Kit Relinquished by:				Date		Time		Method of Shipment:			
Relinquished by: <i>[Signature]</i>				10/11/21 11:13				Received by: <i>[Signature]</i>		Date/Time: 10-11-21 9:30:01 AM	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: A Yes A No				Custody Seal No				Cooler Temperature(s) °C and Offspring Marks		2:11:26	

Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

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Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



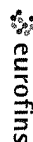
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:					
Client Contact:	Phone	Taylor Holly			890-440 3					
Shipping/Receiving		E-Mail	holly.taylor@eurofins.com	State of Origin	Page 3 of 7					
Company		Accreditations Required (See note)	NELAP - Louisiana, NELAP - Texas	New Mexico						
Address	1211 W. Florida Ave	Due Date Requested	10/6/2021		Job #					
City	Midland	TAT Requested (days):			890-1344-1					
State Zip:	TX, 79701									
Phone:	432-704-5440(Tel)	PO #								
Email:		WO #								
Project Name:	palmito ast	Project #	89000025							
Site:		SSOW#								
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab, BT=Tissue, A=Air)	Matrix (In-house or Accredited)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note.
C-735 (890-1344-19)	9/30/21	09 35	Mountain	Solid		X	X	X	X	
C-736 (890-1344-20)	9/30/21	09 36	Mountain	Solid		X	X	X	X	
C-737 (890-1344-21)	9/30/21	09 37	Mountain	Solid		X	X	X	X	
C-738 (890-1344-22)	9/30/21	09 38	Mountain	Solid		X	X	X	X	
C-739 (890-1344-23)	9/30/21	09 39	Mountain	Solid		X	X	X	X	
C-740 (890-1344-24)	9/30/21	09 40	Mountain	Solid		X	X	X	X	
C-741 (890-1344-25)	9/30/21	09 41	Mountain	Solid		X	X	X	X	
C-742 (890-1344-26)	9/30/21	09 42	Mountain	Solid		X	X	X	X	
C-743 (890-1344-27)	9/30/21	09 43	Mountain	Solid		X	X	X	X	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte, & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I II III IV Other (specify)										
Primary Deliverable Rank 2										
Empty Kit Relinquished by										
Relinquished by: <i>[Signature]</i> Date/Time: 10/11/21 Company: <i>[Signature]</i> Received by: <i>[Signature]</i> Date/Time: 10/11/21 Company: <i>[Signature]</i>										
Relinquished by: <i>[Signature]</i> Date/Time: <i>[Signature]</i> Company: <i>[Signature]</i> Received by: <i>[Signature]</i> Date/Time: <i>[Signature]</i> Company: <i>[Signature]</i>										
Custody Seals Intact: Custody Seal No										
Cooler Temperature(s) °C and other Remarks: 2.1/12.14										
Ver 06/08/2021										

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



Environment Testing America

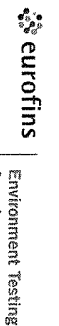
Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:
Client Contact:	Shipping/Receiving	Phone:	Taylor Holly	State of Origin	890-440 4
Company:	Eurofins Xenco	E-Mail:	holly.taylor@eurofinsnet.com	New Mexico	Page 4 of 7
Address		Due Date Requested		Job #	
1211 W Florida Ave,		10/6/2021		890-1344-1	
City:	Midland	TAT Requested (days):		Preservation Codes	
State, Zip	TX, 79701			A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Ammonia H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA Other:	
Phone	432-704-5440(Tel)	PO #		M. Hexane N. None O. AsNaO2 P. Na2O4S Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecylalrate U. Acetone V. MCAA W. pH 4-5 Z. other (specify)	
Email:		WO #			
Project Name:	palmino ast	Project #:	89000025		
Site		SSOW#:			
Sample Identification - Client ID (Lab ID)			Special Instructions/Note:		
C-744 (890-1344-28)	9/30/21	09 44	Mountain	Solid	1
C-745 (890-1344-29)	9/30/21	09 45	Mountain	Solid	1
C-746 (890-1344-30)	9/30/21	09 46	Mountain	Solid	1
C-747 (890-1344-31)	9/30/21	09 47	Mountain	Solid	1
C-748 (890-1344-32)	9/30/21	09 48	Mountain	Solid	1
C-749 (890-1344-33)	9/30/21	09 59	Mountain	Solid	1
C-750 (890-1344-34)	9/30/21	09 50	Mountain	Solid	1
C-751 (890-1344-35)	9/30/21	09 52	Mountain	Solid	1
C-752 (890-1344-36)	9/30/21	09 52	Mountain	Solid	1
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I, II III IV Other (specify)					
Primary Deliverable Rank 2					
Empty Kit Relinquished by					
Relinquished by: <i>[Signature]</i> Date/Time: 10/11/21 Company: <i>[Signature]</i> Date/Time: 10-11-21 9:30 AM Company: <i>[Signature]</i> Date/Time: 10-11-21 9:30 AM Company: <i>[Signature]</i> Date/Time: 10-11-21 9:30 AM Company: <i>[Signature]</i> Date/Time: 10-11-21 9:30 AM					
Relinquished by: <i>[Signature]</i> Date/Time: 10/11/21 Company: <i>[Signature]</i> Date/Time: 10-11-21 9:30 AM Company: <i>[Signature]</i> Date/Time: 10-11-21 9:30 AM Company: <i>[Signature]</i> Date/Time: 10-11-21 9:30 AM Company: <i>[Signature]</i> Date/Time: 10-11-21 9:30 AM					
Custody Seals Intact: Custody Seal No					
A Yes A No					

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Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

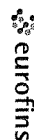


Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No								
Client Contact:		Phone	Taylor Holly		890-440 5								
Shipping/Receiving			E-Mail	State of Origin	Page 5 of 7								
Eurofins Xenco			holly.taylor@eurofinsnet.com	New Mexico									
Address		Due Date Requested	Accreditations Required (See note)		Job #								
1211 W. Florida Ave.		10/6/2021	NELAP - Louisiana NELAP - Texas		890-1344-1								
City		TAT Requested (days)	Analysis Requested										
Midland													
State Zip:													
TX 79701													
Phone:		PO #:											
432-04-5440(Tel)		WO #:											
Email													
Project Name		Project #:											
palmito ast		89000025											
Site:		SSOW#:											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=soil, B=BIOTISSUE, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFPM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
C-753 (890-1344-37)	9/30/21	09 53	Mountain	Solid		X	X	X	X	X	X	1	
C-754 (890-1344-38)	9/30/21	09 54	Mountain	Solid		X	X	X	X	X	X	1	
C-755 (890-1344-39)	9/30/21	09 55	Mountain	Solid		X	X	X	X	X	X	1	
C-756 (890-1344-40)	9/30/21	09 56	Mountain	Solid		X	X	X	X	X	X	1	
C-757 (890-1344-41)	9/30/21	09 57	Mountain	Solid		X	X	X	X	X	X	1	
C-758 (890-1344-42)	9/30/21	09 58	Mountain	Solid		X	X	X	X	X	X	1	
C-759 (890-1344-43)	9/30/21	13 09	Mountain	Solid		X	X	X	X	X	X	1	
C-760 (890-1344-44)	9/30/21	13 10	Mountain	Solid		X	X	X	X	X	X	1	
C-761 (890-1344-45)	9/30/21	13 11	Mountain	Solid		X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out sub-contract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.													
Possible Hazard Identification													
Unconfirmed													
Deliverable Requested I II III IV Other (specify)													
Primary Deliverable Rank: 2													
Empty Kit Relinquished by													
Relinquished by													
Relinquished by													
Relinquished by													
Custody Seals Intact: Custody Seal No													
Δ Yes Δ No													

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact:	Phone:	Taylor Holly			890-440 6
Shipping/Receiving	E-Mail	holly.taylor@eurofinset.com	State of Origin:	Page:	Page 6 of 7
Eurofins Xenco	Address	1211 W Florida Ave	Accreditations Required (See note)	Job #:	890-1344-1
City:	Due Date Requested	10/6/2021	NE LAP - Louisiana, NE LAP - Texas		
Midland	TAT Requested (days):				
State Zip:					
TX, 79701					
Phone	PO #:				
432-704-5440(Tel)	WO #:				
Email					
Project Name:	Project #:				
palmito ast	89000025				
Site	SSON#:				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=bitumen, A=air)
C-762 (890-1344-46)	9/30/21	13 12	Mountain	Solid	
C-763 (890-1344-47)	9/30/21	13 13	Mountain	Solid	
C-764 (890-1344-48)	9/30/21	13 14	Mountain	Solid	
C-765 (890-1344-49)	9/30/21	13 15	Mountain	Solid	
C-766 (890-1344-50)	9/30/21	13 16	Mountain	Solid	
C-767 (890-1344-51)	9/30/21	13 17	Mountain	Solid	
C-768 (890-1344-52)	9/30/21	13 18	Mountain	Solid	
C-769 (890-1344-53)	9/30/21	13 19	Mountain	Solid	
C-770 (890-1344-54)	9/30/21	13 20	Mountain	Solid	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I, II, III, IV Other (specify)	Primary Deliverable Rank 2	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Empty Kit Relinquished by:	Date	Time	Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No	Cooler Temperature(s) °C Time/Other Remarks			
Δ Yes Δ No		21.1/20			

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Environment Testing

Chain of Custody Record

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins
Environment Testing
America

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1344-1

SDG Number: 21-0105-02

Login Number: 1344**List Number: 1****Creator: Olivas, Nathaniel****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1344-1

SDG Number: 21-0105-02

Login Number: 1344**List Number: 2****Creator: Copeland, Tatiana****List Source: Eurofins Xenco, Midland****List Creation: 10/04/21 09:19 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 / 2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-6735-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/11/2021 11:44:14 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-6735-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Eurofins Xenco, Midland

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Job ID: 880-6735-1**Laboratory: Eurofins Xenco, Midland****Narrative****Job Narrative
880-6735-1****Receipt**

The samples were received on 10/1/2021 3:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-780 (880-6735-1), C-782 (880-6735-3), C-783 (880-6735-4), C-784 (880-6735-5), C-787 (880-6735-8), C-788 (880-6735-9), C-789 (880-6735-10), C-793 (880-6735-14), C-794 (880-6735-15), C-795 (880-6735-16), C-796 (880-6735-17), C-797 (880-6735-18), C-798 (880-6735-19) and C-799 (880-6735-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-8808 and analytical batch 880-8965 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-8808 and analytical batch 880-8965 recovered outside control limits for the following analytes: Benzene, Ethylbenzene and m,p-Xylenes.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: C-821 (880-6735-42). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-8916/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 880-8894 and analytical batch 880-8951.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-780

Lab Sample ID: 880-6735-1

Date Collected: 10/01/21 09:00

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *1 *-	0.00202	mg/Kg		10/04/21 13:43	10/07/21 01:10	1
Toluene	<0.00202	U *-	0.00202	mg/Kg		10/04/21 13:43	10/07/21 01:10	1
Ethylbenzene	<0.00202	U *1 *-	0.00202	mg/Kg		10/04/21 13:43	10/07/21 01:10	1
m,p-Xylenes	<0.00404	U *1	0.00404	mg/Kg		10/04/21 13:43	10/07/21 01:10	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:43	10/07/21 01:10	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/04/21 13:43	10/07/21 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	10/04/21 13:43	10/07/21 01:10	1
1,4-Difluorobenzene (Surr)	95		70 - 130	10/04/21 13:43	10/07/21 01:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 11:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 11:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	10/05/21 11:28	10/06/21 11:45	1
o-Terphenyl (Surr)	125		70 - 130	10/05/21 11:28	10/06/21 11:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	432		4.97	mg/Kg			10/07/21 13:27	1

Client Sample ID: C-781

Lab Sample ID: 880-6735-2

Date Collected: 10/01/21 09:01

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		10/04/21 13:43	10/07/21 01:36	1
Toluene	<0.00200	U *-	0.00200	mg/Kg		10/04/21 13:43	10/07/21 01:36	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		10/04/21 13:43	10/07/21 01:36	1
m,p-Xylenes	<0.00400	U *1	0.00400	mg/Kg		10/04/21 13:43	10/07/21 01:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:43	10/07/21 01:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:43	10/07/21 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	10/04/21 13:43	10/07/21 01:36	1
1,4-Difluorobenzene (Surr)	76		70 - 130	10/04/21 13:43	10/07/21 01:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-781

Lab Sample ID: 880-6735-2

Date Collected: 10/01/21 09:01

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 12:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 12:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 12:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			10/05/21 11:28	10/06/21 12:50	1
o-Terphenyl (Surr)	126		70 - 130			10/05/21 11:28	10/06/21 12:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.1		4.95	mg/Kg			10/07/21 13:34	1

Client Sample ID: C-782

Lab Sample ID: 880-6735-3

Date Collected: 10/01/21 09:02

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	mg/Kg		10/04/21 13:43	10/07/21 02:02	1
Toluene	<0.00201	U *-	0.00201	mg/Kg		10/04/21 13:43	10/07/21 02:02	1
Ethylbenzene	<0.00201	U *- *1	0.00201	mg/Kg		10/04/21 13:43	10/07/21 02:02	1
m,p-Xylenes	<0.00402	U *1	0.00402	mg/Kg		10/04/21 13:43	10/07/21 02:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:43	10/07/21 02:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:43	10/07/21 02:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130			10/04/21 13:43	10/07/21 02:02	1
1,4-Difluorobenzene (Surr)	115		70 - 130			10/04/21 13:43	10/07/21 02:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 13:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 13:12	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-782

Lab Sample ID: 880-6735-3

Date Collected: 10/01/21 09:02

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 13:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			10/05/21 11:28	10/06/21 13:12	1
o-Terphenyl (Surr)	118		70 - 130			10/05/21 11:28	10/06/21 13:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		5.05	mg/Kg			10/07/21 13:56	1

Client Sample ID: C-783

Lab Sample ID: 880-6735-4

Date Collected: 10/01/21 09:03

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		10/04/21 13:43	10/07/21 02:27	1
Toluene	<0.00200	U *-	0.00200	mg/Kg		10/04/21 13:43	10/07/21 02:27	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		10/04/21 13:43	10/07/21 02:27	1
m,p-Xylenes	<0.00401	U *1	0.00401	mg/Kg		10/04/21 13:43	10/07/21 02:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:43	10/07/21 02:27	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:43	10/07/21 02:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			10/04/21 13:43	10/07/21 02:27	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/04/21 13:43	10/07/21 02:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 13:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 13:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 13:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			10/05/21 11:28	10/06/21 13:33	1
o-Terphenyl (Surr)	123		70 - 130			10/05/21 11:28	10/06/21 13:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3		4.98	mg/Kg			10/07/21 14:03	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-784

Lab Sample ID: 880-6735-5

Date Collected: 10/01/21 09:04

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	mg/Kg		10/04/21 13:43	10/07/21 02:53	1
Toluene	<0.00201	U *-	0.00201	mg/Kg		10/04/21 13:43	10/07/21 02:53	1
Ethylbenzene	<0.00201	U *- *1	0.00201	mg/Kg		10/04/21 13:43	10/07/21 02:53	1
m,p-Xylenes	<0.00402	U *1	0.00402	mg/Kg		10/04/21 13:43	10/07/21 02:53	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:43	10/07/21 02:53	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:43	10/07/21 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	10/04/21 13:43	10/07/21 02:53	1
1,4-Difluorobenzene (Surr)	111		70 - 130	10/04/21 13:43	10/07/21 02:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 13:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 13:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	10/05/21 11:28	10/06/21 13:55	1
o-Terphenyl (Surr)	112		70 - 130	10/05/21 11:28	10/06/21 13:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.6		4.95	mg/Kg			10/07/21 14:10	1

Client Sample ID: C-785

Lab Sample ID: 880-6735-6

Date Collected: 10/01/21 09:05

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		10/04/21 13:43	10/07/21 03:19	1
Toluene	<0.00199	U *-	0.00199	mg/Kg		10/04/21 13:43	10/07/21 03:19	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		10/04/21 13:43	10/07/21 03:19	1
m,p-Xylenes	<0.00398	U *1	0.00398	mg/Kg		10/04/21 13:43	10/07/21 03:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:43	10/07/21 03:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:43	10/07/21 03:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	10/04/21 13:43	10/07/21 03:19	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/04/21 13:43	10/07/21 03:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-785

Lab Sample ID: 880-6735-6

Date Collected: 10/01/21 09:05

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 14:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 14:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			10/05/21 11:28	10/06/21 14:17	1
o-Terphenyl (Surr)	123		70 - 130			10/05/21 11:28	10/06/21 14:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.8		4.99	mg/Kg			10/07/21 14:17	1

Client Sample ID: C-786

Lab Sample ID: 880-6735-7

Date Collected: 10/01/21 09:06

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U * - *1	0.00200	mg/Kg		10/04/21 13:43	10/07/21 03:45	1
Toluene	<0.00200	U *	0.00200	mg/Kg		10/04/21 13:43	10/07/21 03:45	1
Ethylbenzene	<0.00200	U * - *1	0.00200	mg/Kg		10/04/21 13:43	10/07/21 03:45	1
m,p-Xylenes	<0.00400	U *1	0.00400	mg/Kg		10/04/21 13:43	10/07/21 03:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:43	10/07/21 03:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:43	10/07/21 03:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			10/04/21 13:43	10/07/21 03:45	1
1,4-Difluorobenzene (Surr)	90		70 - 130			10/04/21 13:43	10/07/21 03:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 14:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 14:39	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-786

Lab Sample ID: 880-6735-7

Date Collected: 10/01/21 09:06

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 14:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			10/05/21 11:28	10/06/21 14:39	1
o-Terphenyl (Surr)	120		70 - 130			10/05/21 11:28	10/06/21 14:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1210		4.98	mg/Kg			10/07/21 14:25	1

Client Sample ID: C-787

Lab Sample ID: 880-6735-8

Date Collected: 10/01/21 09:07

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		10/04/21 13:43	10/07/21 04:11	1
Toluene	<0.00200	U *-	0.00200	mg/Kg		10/04/21 13:43	10/07/21 04:11	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		10/04/21 13:43	10/07/21 04:11	1
m,p-Xylenes	<0.00399	U *1	0.00399	mg/Kg		10/04/21 13:43	10/07/21 04:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:43	10/07/21 04:11	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/21 13:43	10/07/21 04:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130			10/04/21 13:43	10/07/21 04:11	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/04/21 13:43	10/07/21 04:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 15:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 15:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 15:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			10/05/21 11:28	10/06/21 15:01	1
o-Terphenyl (Surr)	123		70 - 130			10/05/21 11:28	10/06/21 15:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		4.95	mg/Kg			10/07/21 14:32	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-788

Lab Sample ID: 880-6735-9

Date Collected: 10/01/21 09:08

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202	mg/Kg		10/04/21 13:43	10/07/21 04:37	1
Toluene	<0.00202	U *-	0.00202	mg/Kg		10/04/21 13:43	10/07/21 04:37	1
Ethylbenzene	<0.00202	U *- *1	0.00202	mg/Kg		10/04/21 13:43	10/07/21 04:37	1
m,p-Xylenes	<0.00403	U *1	0.00403	mg/Kg		10/04/21 13:43	10/07/21 04:37	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:43	10/07/21 04:37	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/04/21 13:43	10/07/21 04:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	10/04/21 13:43	10/07/21 04:37	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/04/21 13:43	10/07/21 04:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 15:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 15:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	10/05/21 11:28	10/06/21 15:22	1
o-Terphenyl (Surr)	123		70 - 130	10/05/21 11:28	10/06/21 15:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.6		5.02	mg/Kg			10/07/21 15:15	1

Client Sample ID: C-789

Lab Sample ID: 880-6735-10

Date Collected: 10/01/21 09:09

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		10/04/21 13:43	10/07/21 05:03	1
Toluene	<0.00200	U *-	0.00200	mg/Kg		10/04/21 13:43	10/07/21 05:03	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		10/04/21 13:43	10/07/21 05:03	1
m,p-Xylenes	<0.00400	U *1	0.00400	mg/Kg		10/04/21 13:43	10/07/21 05:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:43	10/07/21 05:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:43	10/07/21 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	10/04/21 13:43	10/07/21 05:03	1
1,4-Difluorobenzene (Surr)	109		70 - 130	10/04/21 13:43	10/07/21 05:03	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-789

Lab Sample ID: 880-6735-10

Date Collected: 10/01/21 09:09

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 15:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 15:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 15:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			10/05/21 11:28	10/06/21 15:45	1
o-Terphenyl (Surr)	118		70 - 130			10/05/21 11:28	10/06/21 15:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.9		4.98	mg/Kg			10/07/21 15:22	1

Client Sample ID: C-790

Lab Sample ID: 880-6735-11

Date Collected: 10/01/21 09:10

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		10/04/21 13:43	10/07/21 06:48	1
Toluene	<0.00199	U *-	0.00199	mg/Kg		10/04/21 13:43	10/07/21 06:48	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		10/04/21 13:43	10/07/21 06:48	1
m,p-Xylenes	<0.00398	U *1	0.00398	mg/Kg		10/04/21 13:43	10/07/21 06:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:43	10/07/21 06:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:43	10/07/21 06:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			10/04/21 13:43	10/07/21 06:48	1
1,4-Difluorobenzene (Surr)	81		70 - 130			10/04/21 13:43	10/07/21 06:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 16:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 16:29	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-790

Lab Sample ID: 880-6735-11

Date Collected: 10/01/21 09:10

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 16:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			10/05/21 11:28	10/06/21 16:29	1
o-Terphenyl (Surr)	130		70 - 130			10/05/21 11:28	10/06/21 16:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.3		4.97	mg/Kg			10/07/21 15:43	1

Client Sample ID: C-791

Lab Sample ID: 880-6735-12

Date Collected: 10/01/21 09:11

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *1 *	0.00202	mg/Kg		10/04/21 13:43	10/07/21 07:14	1
Toluene	<0.00202	U *	0.00202	mg/Kg		10/04/21 13:43	10/07/21 07:14	1
Ethylbenzene	<0.00202	U *1 *	0.00202	mg/Kg		10/04/21 13:43	10/07/21 07:14	1
m,p-Xylenes	<0.00404	U *1	0.00404	mg/Kg		10/04/21 13:43	10/07/21 07:14	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:43	10/07/21 07:14	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/04/21 13:43	10/07/21 07:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			10/04/21 13:43	10/07/21 07:14	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/04/21 13:43	10/07/21 07:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 16:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 16:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 16:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			10/05/21 11:28	10/06/21 16:51	1
o-Terphenyl (Surr)	123		70 - 130			10/05/21 11:28	10/06/21 16:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.4		5.00	mg/Kg			10/07/21 15:51	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-792

Lab Sample ID: 880-6735-13

Date Collected: 10/01/21 09:20

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		10/04/21 13:43	10/07/21 07:40	1
Toluene	<0.00200	U *-	0.00200	mg/Kg		10/04/21 13:43	10/07/21 07:40	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		10/04/21 13:43	10/07/21 07:40	1
m,p-Xylenes	<0.00399	U *1	0.00399	mg/Kg		10/04/21 13:43	10/07/21 07:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:43	10/07/21 07:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/21 13:43	10/07/21 07:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	10/04/21 13:43	10/07/21 07:40	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/04/21 13:43	10/07/21 07:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 17:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 17:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	10/05/21 11:28	10/06/21 17:13	1
o-Terphenyl (Surr)	124		70 - 130	10/05/21 11:28	10/06/21 17:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.9		4.99	mg/Kg			10/07/21 15:58	1

Client Sample ID: C-793

Lab Sample ID: 880-6735-14

Date Collected: 10/01/21 09:21

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		10/04/21 13:43	10/07/21 08:05	1
Toluene	<0.00199	U *-	0.00199	mg/Kg		10/04/21 13:43	10/07/21 08:05	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		10/04/21 13:43	10/07/21 08:05	1
m,p-Xylenes	<0.00398	U *1	0.00398	mg/Kg		10/04/21 13:43	10/07/21 08:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:43	10/07/21 08:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:43	10/07/21 08:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	10/04/21 13:43	10/07/21 08:05	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/04/21 13:43	10/07/21 08:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-793

Lab Sample ID: 880-6735-14

Date Collected: 10/01/21 09:21

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 17:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 17:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 17:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			10/05/21 11:28	10/06/21 17:35	1
o-Terphenyl (Surr)	119		70 - 130			10/05/21 11:28	10/06/21 17:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.0		4.95	mg/Kg			10/07/21 16:05	1

Client Sample ID: C-794

Lab Sample ID: 880-6735-15

Date Collected: 10/01/21 09:22

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		10/04/21 13:43	10/07/21 08:31	1
Toluene	<0.00199	U *-	0.00199	mg/Kg		10/04/21 13:43	10/07/21 08:31	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		10/04/21 13:43	10/07/21 08:31	1
m,p-Xylenes	<0.00398	U *1	0.00398	mg/Kg		10/04/21 13:43	10/07/21 08:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:43	10/07/21 08:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:43	10/07/21 08:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			10/04/21 13:43	10/07/21 08:31	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/04/21 13:43	10/07/21 08:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 17:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 17:57	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-794

Lab Sample ID: 880-6735-15

Date Collected: 10/01/21 09:22

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 17:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			10/05/21 11:28	10/06/21 17:57	1
o-Terphenyl (Surr)	115		70 - 130			10/05/21 11:28	10/06/21 17:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.4		5.02	mg/Kg			10/07/21 16:12	1

Client Sample ID: C-795

Lab Sample ID: 880-6735-16

Date Collected: 10/01/21 09:23

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202	mg/Kg		10/04/21 13:43	10/07/21 08:57	1
Toluene	<0.00202	U *-	0.00202	mg/Kg		10/04/21 13:43	10/07/21 08:57	1
Ethylbenzene	<0.00202	U *- *1	0.00202	mg/Kg		10/04/21 13:43	10/07/21 08:57	1
m,p-Xylenes	<0.00403	U *1	0.00403	mg/Kg		10/04/21 13:43	10/07/21 08:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:43	10/07/21 08:57	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/04/21 13:43	10/07/21 08:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130			10/04/21 13:43	10/07/21 08:57	1
1,4-Difluorobenzene (Surr)	98		70 - 130			10/04/21 13:43	10/07/21 08:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 18:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 18:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 18:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			10/05/21 11:28	10/06/21 18:19	1
o-Terphenyl (Surr)	120		70 - 130			10/05/21 11:28	10/06/21 18:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.1		4.97	mg/Kg			10/07/21 16:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-796

Lab Sample ID: 880-6735-17

Date Collected: 10/01/21 09:24

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		10/04/21 13:43	10/07/21 09:22	1
Toluene	<0.00199	U *-	0.00199	mg/Kg		10/04/21 13:43	10/07/21 09:22	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		10/04/21 13:43	10/07/21 09:22	1
m,p-Xylenes	<0.00398	U *1	0.00398	mg/Kg		10/04/21 13:43	10/07/21 09:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:43	10/07/21 09:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:43	10/07/21 09:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	10/04/21 13:43	10/07/21 09:22	1
1,4-Difluorobenzene (Surr)	111		70 - 130	10/04/21 13:43	10/07/21 09:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 18:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 18:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 11:28	10/06/21 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	10/05/21 11:28	10/06/21 18:41	1
o-Terphenyl (Surr)	125		70 - 130	10/05/21 11:28	10/06/21 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.04	mg/Kg			10/07/21 16:26	1

Client Sample ID: C-797

Lab Sample ID: 880-6735-18

Date Collected: 10/01/21 09:25

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	mg/Kg		10/04/21 13:43	10/07/21 09:48	1
Toluene	<0.00201	U *-	0.00201	mg/Kg		10/04/21 13:43	10/07/21 09:48	1
Ethylbenzene	<0.00201	U *- *1	0.00201	mg/Kg		10/04/21 13:43	10/07/21 09:48	1
m,p-Xylenes	<0.00402	U *1	0.00402	mg/Kg		10/04/21 13:43	10/07/21 09:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:43	10/07/21 09:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:43	10/07/21 09:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	10/04/21 13:43	10/07/21 09:48	1
1,4-Difluorobenzene (Surr)	110		70 - 130	10/04/21 13:43	10/07/21 09:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-797

Lab Sample ID: 880-6735-18

Date Collected: 10/01/21 09:25

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 19:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 19:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			10/05/21 11:28	10/06/21 19:02	1
o-Terphenyl (Surr)	123		70 - 130			10/05/21 11:28	10/06/21 19:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	380		4.99	mg/Kg			10/07/21 17:24	1

Client Sample ID: C-798

Lab Sample ID: 880-6735-19

Date Collected: 10/01/21 09:26

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202	mg/Kg		10/04/21 13:43	10/07/21 10:14	1
Toluene	<0.00202	U *-	0.00202	mg/Kg		10/04/21 13:43	10/07/21 10:14	1
Ethylbenzene	<0.00202	U *- *1	0.00202	mg/Kg		10/04/21 13:43	10/07/21 10:14	1
m,p-Xylenes	<0.00404	U *1	0.00404	mg/Kg		10/04/21 13:43	10/07/21 10:14	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:43	10/07/21 10:14	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/04/21 13:43	10/07/21 10:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130			10/04/21 13:43	10/07/21 10:14	1
1,4-Difluorobenzene (Surr)	112		70 - 130			10/04/21 13:43	10/07/21 10:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 19:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 19:24	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-798

Lab Sample ID: 880-6735-19

Date Collected: 10/01/21 09:26

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 11:28	10/06/21 19:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			10/05/21 11:28	10/06/21 19:24	1
o-Terphenyl (Surr)	123		70 - 130			10/05/21 11:28	10/06/21 19:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	376		5.00	mg/Kg			10/07/21 17:45	1

Client Sample ID: C-799

Lab Sample ID: 880-6735-20

Date Collected: 10/01/21 09:27

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *- *1	0.00198	mg/Kg		10/04/21 13:43	10/07/21 10:39	1
Toluene	<0.00198	U *-	0.00198	mg/Kg		10/04/21 13:43	10/07/21 10:39	1
Ethylbenzene	<0.00198	U *- *1	0.00198	mg/Kg		10/04/21 13:43	10/07/21 10:39	1
m,p-Xylenes	<0.00396	U *1	0.00396	mg/Kg		10/04/21 13:43	10/07/21 10:39	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:43	10/07/21 10:39	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:43	10/07/21 10:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	291	S1+	70 - 130			10/04/21 13:43	10/07/21 10:39	1
1,4-Difluorobenzene (Surr)	90		70 - 130			10/04/21 13:43	10/07/21 10:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/07/21 12:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 19:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 19:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			10/05/21 11:28	10/06/21 19:46	1
o-Terphenyl (Surr)	124		70 - 130			10/05/21 11:28	10/06/21 19:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	460		4.96	mg/Kg			10/07/21 17:52	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-800

Lab Sample ID: 880-6735-21

Date Collected: 10/01/21 09:28

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		10/04/21 13:46	10/11/21 00:37	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		10/04/21 13:46	10/11/21 00:37	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		10/04/21 13:46	10/11/21 00:37	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		10/04/21 13:46	10/11/21 00:37	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		10/04/21 13:46	10/11/21 00:37	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		10/04/21 13:46	10/11/21 00:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130	10/04/21 13:46	10/11/21 00:37	1
1,4-Difluorobenzene (Surr)	86		70 - 130	10/04/21 13:46	10/11/21 00:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 11:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 11:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130	10/05/21 10:23	10/06/21 11:24	1
o-Terphenyl (Surr)	128		70 - 130	10/05/21 10:23	10/06/21 11:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	459		5.04	mg/Kg			10/07/21 18:00	1

Client Sample ID: C-801

Lab Sample ID: 880-6735-22

Date Collected: 10/01/21 09:29

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 00:57	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 00:57	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 00:57	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		10/04/21 13:46	10/11/21 00:57	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 00:57	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:46	10/11/21 00:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/04/21 13:46	10/11/21 00:57	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	10/04/21 13:46	10/11/21 00:57	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-801

Lab Sample ID: 880-6735-22

Date Collected: 10/01/21 09:29

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 12:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 12:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 12:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			10/05/21 10:23	10/06/21 12:28	1
o-Terphenyl (Surr)	113		70 - 130			10/05/21 10:23	10/06/21 12:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275		4.98	mg/Kg			10/07/21 18:07	1

Client Sample ID: C-802

Lab Sample ID: 880-6735-23

Date Collected: 10/01/21 08:44

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 01:18	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 01:18	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 01:18	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		10/04/21 13:46	10/11/21 01:18	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 01:18	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:46	10/11/21 01:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130			10/04/21 13:46	10/11/21 01:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/04/21 13:46	10/11/21 01:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 12:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 12:50	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-802

Lab Sample ID: 880-6735-23

Date Collected: 10/01/21 08:44

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 12:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			10/05/21 10:23	10/06/21 12:50	1
o-Terphenyl (Surr)	121		70 - 130			10/05/21 10:23	10/06/21 12:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.6		5.05	mg/Kg			10/07/21 18:28	1

Client Sample ID: C-803

Lab Sample ID: 880-6735-24

Date Collected: 10/01/21 08:45

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 01:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 01:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 01:38	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		10/04/21 13:46	10/11/21 01:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 01:38	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:46	10/11/21 01:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130			10/04/21 13:46	10/11/21 01:38	1
1,4-Difluorobenzene (Surr)	81		70 - 130			10/04/21 13:46	10/11/21 01:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 13:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 13:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 13:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130			10/05/21 10:23	10/06/21 13:12	1
o-Terphenyl (Surr)	123		70 - 130			10/05/21 10:23	10/06/21 13:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.7		5.01	mg/Kg			10/07/21 18:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-804

Lab Sample ID: 880-6735-25

Date Collected: 10/01/21 08:46

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:46	10/11/21 01:59	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:46	10/11/21 01:59	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:46	10/11/21 01:59	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		10/04/21 13:46	10/11/21 01:59	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:46	10/11/21 01:59	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/04/21 13:46	10/11/21 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	10/04/21 13:46	10/11/21 01:59	1
1,4-Difluorobenzene (Surr)	80		70 - 130	10/04/21 13:46	10/11/21 01:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 13:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 13:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130	10/05/21 10:23	10/06/21 13:33	1
o-Terphenyl (Surr)	120		70 - 130	10/05/21 10:23	10/06/21 13:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.5		4.98	mg/Kg			10/07/21 18:43	1

Client Sample ID: C-805

Lab Sample ID: 880-6735-26

Date Collected: 10/01/21 08:47

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 02:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 02:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 02:19	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/04/21 13:46	10/11/21 02:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 02:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:46	10/11/21 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	10/04/21 13:46	10/11/21 02:19	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	10/04/21 13:46	10/11/21 02:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-805

Lab Sample ID: 880-6735-26

Date Collected: 10/01/21 08:47

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 13:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 13:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130			10/05/21 10:23	10/06/21 13:55	1
o-Terphenyl (Surr)	128		70 - 130			10/05/21 10:23	10/06/21 13:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	534		4.95	mg/Kg			10/07/21 18:50	1

Client Sample ID: C-806

Lab Sample ID: 880-6735-27

Date Collected: 10/01/21 08:48

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:46	10/11/21 02:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:46	10/11/21 02:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:46	10/11/21 02:40	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		10/04/21 13:46	10/11/21 02:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:46	10/11/21 02:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:46	10/11/21 02:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			10/04/21 13:46	10/11/21 02:40	1
1,4-Difluorobenzene (Surr)	85		70 - 130			10/04/21 13:46	10/11/21 02:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 14:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 14:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-806

Lab Sample ID: 880-6735-27

Date Collected: 10/01/21 08:48

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 14:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			10/05/21 10:23	10/06/21 14:16	1
o-Terphenyl (Surr)	129		70 - 130			10/05/21 10:23	10/06/21 14:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		5.00	mg/Kg			10/07/21 18:57	1

Client Sample ID: C-807

Lab Sample ID: 880-6735-28

Date Collected: 10/01/21 08:49

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:46	10/11/21 03:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:46	10/11/21 03:00	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:46	10/11/21 03:00	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		10/04/21 13:46	10/11/21 03:00	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:46	10/11/21 03:00	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:46	10/11/21 03:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130			10/04/21 13:46	10/11/21 03:00	1
1,4-Difluorobenzene (Surr)	83		70 - 130			10/04/21 13:46	10/11/21 03:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 14:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 14:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 14:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			10/05/21 10:23	10/06/21 14:38	1
o-Terphenyl (Surr)	114		70 - 130			10/05/21 10:23	10/06/21 14:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.2		4.95	mg/Kg			10/07/21 19:04	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-808

Lab Sample ID: 880-6735-29

Date Collected: 10/01/21 08:50

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 03:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 03:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 03:20	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/04/21 13:46	10/11/21 03:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 03:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:46	10/11/21 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	10/04/21 13:46	10/11/21 03:20	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/04/21 13:46	10/11/21 03:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 14:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 14:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	60	S1-	70 - 130	10/05/21 10:23	10/06/21 14:59	1
o-Terphenyl (Surr)	119		70 - 130	10/05/21 10:23	10/06/21 14:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.2		5.04	mg/Kg			10/07/21 19:26	1

Client Sample ID: C-809

Lab Sample ID: 880-6735-30

Date Collected: 10/01/21 09:15

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 03:41	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 03:41	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 03:41	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		10/04/21 13:46	10/11/21 03:41	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 03:41	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/04/21 13:46	10/11/21 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	10/04/21 13:46	10/11/21 03:41	1
1,4-Difluorobenzene (Surr)	78		70 - 130	10/04/21 13:46	10/11/21 03:41	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-809

Lab Sample ID: 880-6735-30

Date Collected: 10/01/21 09:15

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 15:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 15:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 15:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			10/05/21 10:23	10/06/21 15:21	1
o-Terphenyl (Surr)	126		70 - 130			10/05/21 10:23	10/06/21 15:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.5		4.97	mg/Kg			10/07/21 19:33	1

Client Sample ID: C-810

Lab Sample ID: 880-6735-31

Date Collected: 10/01/21 09:20

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 05:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 05:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 05:02	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/04/21 13:46	10/11/21 05:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 05:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:46	10/11/21 05:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			10/04/21 13:46	10/11/21 05:02	1
1,4-Difluorobenzene (Surr)	113		70 - 130			10/04/21 13:46	10/11/21 05:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 16:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 16:04	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-810

Lab Sample ID: 880-6735-31

Date Collected: 10/01/21 09:20

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 16:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			10/05/21 10:23	10/06/21 16:04	1
o-Terphenyl (Surr)	128		70 - 130			10/05/21 10:23	10/06/21 16:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.3		4.98	mg/Kg			10/07/21 19:54	1

Client Sample ID: C-811

Lab Sample ID: 880-6735-32

Date Collected: 10/01/21 09:21

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 05:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 05:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 05:23	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/04/21 13:46	10/11/21 05:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 05:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:46	10/11/21 05:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130			10/04/21 13:46	10/11/21 05:23	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130			10/04/21 13:46	10/11/21 05:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 16:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 16:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 16:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			10/05/21 10:23	10/06/21 16:26	1
o-Terphenyl (Surr)	114		70 - 130			10/05/21 10:23	10/06/21 16:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.7		4.95	mg/Kg			10/07/21 20:01	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-812

Lab Sample ID: 880-6735-33

Date Collected: 10/01/21 09:22

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 05:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 05:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 05:43	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/04/21 13:46	10/11/21 05:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 05:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:46	10/11/21 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	10/04/21 13:46	10/11/21 05:43	1
1,4-Difluorobenzene (Surr)	82		70 - 130	10/04/21 13:46	10/11/21 05:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 16:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 16:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	10/05/21 10:23	10/06/21 16:48	1
o-Terphenyl (Surr)	111		70 - 130	10/05/21 10:23	10/06/21 16:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		4.99	mg/Kg			10/07/21 20:09	1

Client Sample ID: C-813

Lab Sample ID: 880-6735-34

Date Collected: 10/01/21 09:23

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 06:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 06:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 06:04	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/04/21 13:46	10/11/21 06:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:46	10/11/21 06:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:46	10/11/21 06:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130	10/04/21 13:46	10/11/21 06:04	1
1,4-Difluorobenzene (Surr)	78		70 - 130	10/04/21 13:46	10/11/21 06:04	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-813

Lab Sample ID: 880-6735-34

Date Collected: 10/01/21 09:23

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 17:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 17:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			10/05/21 10:23	10/06/21 17:10	1
o-Terphenyl (Surr)	119		70 - 130			10/05/21 10:23	10/06/21 17:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		5.04	mg/Kg			10/07/21 20:16	1

Client Sample ID: C-814

Lab Sample ID: 880-6735-35

Date Collected: 10/01/21 09:24

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:46	10/11/21 06:24	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:46	10/11/21 06:24	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:46	10/11/21 06:24	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		10/04/21 13:46	10/11/21 06:24	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:46	10/11/21 06:24	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:46	10/11/21 06:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			10/04/21 13:46	10/11/21 06:24	1
1,4-Difluorobenzene (Surr)	80		70 - 130			10/04/21 13:46	10/11/21 06:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 17:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 17:32	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-814

Lab Sample ID: 880-6735-35

Date Collected: 10/01/21 09:24

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			10/05/21 10:23	10/06/21 17:32	1
o-Terphenyl (Surr)	119		70 - 130			10/05/21 10:23	10/06/21 17:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.3		4.98	mg/Kg			10/07/21 20:23	1

Client Sample ID: C-815

Lab Sample ID: 880-6735-36

Date Collected: 10/01/21 09:25

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 06:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 06:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 06:45	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		10/04/21 13:46	10/11/21 06:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 06:45	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:46	10/11/21 06:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130			10/04/21 13:46	10/11/21 06:45	1
1,4-Difluorobenzene (Surr)	83		70 - 130			10/04/21 13:46	10/11/21 06:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 17:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 17:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 17:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			10/05/21 10:23	10/06/21 17:53	1
o-Terphenyl (Surr)	123		70 - 130			10/05/21 10:23	10/06/21 17:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.2		5.00	mg/Kg			10/07/21 20:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-816

Lab Sample ID: 880-6735-37

Date Collected: 10/01/21 09:26

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 07:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 07:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 07:05	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		10/04/21 13:46	10/11/21 07:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 07:05	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/21 13:46	10/11/21 07:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	10/04/21 13:46	10/11/21 07:05	1
1,4-Difluorobenzene (Surr)	85		70 - 130	10/04/21 13:46	10/11/21 07:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 18:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 18:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 10:23	10/06/21 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	10/05/21 10:23	10/06/21 18:14	1
o-Terphenyl (Surr)	120		70 - 130	10/05/21 10:23	10/06/21 18:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		5.05	mg/Kg			10/07/21 20:37	1

Client Sample ID: C-817

Lab Sample ID: 880-6735-38

Date Collected: 10/01/21 09:27

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 07:25	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 07:25	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 07:25	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		10/04/21 13:46	10/11/21 07:25	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:46	10/11/21 07:25	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:46	10/11/21 07:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	10/04/21 13:46	10/11/21 07:25	1
1,4-Difluorobenzene (Surr)	84		70 - 130	10/04/21 13:46	10/11/21 07:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-817

Lab Sample ID: 880-6735-38

Date Collected: 10/01/21 09:27

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 18:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 18:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			10/05/21 10:23	10/06/21 18:35	1
o-Terphenyl (Surr)	115		70 - 130			10/05/21 10:23	10/06/21 18:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197	F1	5.05	mg/Kg			10/07/21 21:46	1

Client Sample ID: C-818

Lab Sample ID: 880-6735-39

Date Collected: 10/01/21 09:28

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 07:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 07:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 07:46	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/04/21 13:46	10/11/21 07:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 07:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:46	10/11/21 07:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			10/04/21 13:46	10/11/21 07:46	1
1,4-Difluorobenzene (Surr)	79		70 - 130			10/04/21 13:46	10/11/21 07:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 18:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 18:57	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-818

Lab Sample ID: 880-6735-39

Date Collected: 10/01/21 09:28

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 10:23	10/06/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			10/05/21 10:23	10/06/21 18:57	1
o-Terphenyl (Surr)	121		70 - 130			10/05/21 10:23	10/06/21 18:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.6		4.99	mg/Kg			10/07/21 22:03	1

Client Sample ID: C-819

Lab Sample ID: 880-6735-40

Date Collected: 10/01/21 09:29

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:46	10/11/21 08:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:46	10/11/21 08:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:46	10/11/21 08:06	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		10/04/21 13:46	10/11/21 08:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/04/21 13:46	10/11/21 08:06	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/04/21 13:46	10/11/21 08:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			10/04/21 13:46	10/11/21 08:06	1
1,4-Difluorobenzene (Surr)	70		70 - 130			10/04/21 13:46	10/11/21 08:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/11/21 10:24	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 19:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 19:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 19:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			10/05/21 10:23	10/06/21 19:18	1
o-Terphenyl (Surr)	126		70 - 130			10/05/21 10:23	10/06/21 19:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.9		4.98	mg/Kg			10/07/21 22:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-820

Lab Sample ID: 880-6735-41

Date Collected: 10/01/21 09:30

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199	mg/Kg		10/04/21 13:48	10/10/21 23:15	1
Toluene	<0.00199	U F2 F1	0.00199	mg/Kg		10/04/21 13:48	10/10/21 23:15	1
Ethylbenzene	<0.00199	U F2 F1	0.00199	mg/Kg		10/04/21 13:48	10/10/21 23:15	1
m,p-Xylenes	<0.00398	U F2 F1	0.00398	mg/Kg		10/04/21 13:48	10/10/21 23:15	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		10/04/21 13:48	10/10/21 23:15	1
Xylenes, Total	<0.00398	U F2 F1	0.00398	mg/Kg		10/04/21 13:48	10/10/21 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/04/21 13:48	10/10/21 23:15	1
1,4-Difluorobenzene (Surr)	78		70 - 130	10/04/21 13:48	10/10/21 23:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 11:42	10/06/21 11:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 11:42	10/06/21 11:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 11:42	10/06/21 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	10/05/21 11:42	10/06/21 11:45	1
o-Terphenyl (Surr)	109		70 - 130	10/05/21 11:42	10/06/21 11:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.9		4.95	mg/Kg			10/07/21 22:14	1

Client Sample ID: C-821

Lab Sample ID: 880-6735-42

Date Collected: 10/01/21 09:31

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/10/21 23:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/10/21 23:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/10/21 23:36	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/04/21 13:48	10/10/21 23:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/10/21 23:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:48	10/10/21 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	10/04/21 13:48	10/10/21 23:36	1
1,4-Difluorobenzene (Surr)	85		70 - 130	10/04/21 13:48	10/10/21 23:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-821

Lab Sample ID: 880-6735-42

Date Collected: 10/01/21 09:31

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 08:23	10/05/21 11:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 08:23	10/05/21 11:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 08:23	10/05/21 11:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			10/05/21 08:23	10/05/21 11:31	1
o-Terphenyl (Surr)	134	S1+	70 - 130			10/05/21 08:23	10/05/21 11:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.3		4.95	mg/Kg			10/07/21 22:20	1

Client Sample ID: C-822

Lab Sample ID: 880-6735-43

Date Collected: 10/01/21 09:32

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:48	10/10/21 23:57	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:48	10/10/21 23:57	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:48	10/10/21 23:57	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		10/04/21 13:48	10/10/21 23:57	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:48	10/10/21 23:57	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/21 13:48	10/10/21 23:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			10/04/21 13:48	10/10/21 23:57	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/04/21 13:48	10/10/21 23:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 12:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 12:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-822

Lab Sample ID: 880-6735-43

Date Collected: 10/01/21 09:32

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 12:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			10/05/21 08:23	10/05/21 12:36	1
o-Terphenyl (Surr)	116		70 - 130			10/05/21 08:23	10/05/21 12:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.5		5.04	mg/Kg			10/07/21 22:37	1

Client Sample ID: C-823

Lab Sample ID: 880-6735-44

Date Collected: 10/01/21 09:33

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:48	10/11/21 00:18	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:48	10/11/21 00:18	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:48	10/11/21 00:18	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		10/04/21 13:48	10/11/21 00:18	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:48	10/11/21 00:18	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:48	10/11/21 00:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			10/04/21 13:48	10/11/21 00:18	1
1,4-Difluorobenzene (Surr)	101		70 - 130			10/04/21 13:48	10/11/21 00:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 08:23	10/05/21 12:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 08:23	10/05/21 12:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 08:23	10/05/21 12:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			10/05/21 08:23	10/05/21 12:58	1
o-Terphenyl (Surr)	125		70 - 130			10/05/21 08:23	10/05/21 12:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		4.97	mg/Kg			10/07/21 22:42	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-824

Lab Sample ID: 880-6735-45

Date Collected: 10/01/21 09:34

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 00:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 00:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 00:38	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		10/04/21 13:48	10/11/21 00:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 00:38	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:48	10/11/21 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130	10/04/21 13:48	10/11/21 00:38	1
1,4-Difluorobenzene (Surr)	156	S1+	70 - 130	10/04/21 13:48	10/11/21 00:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 08:23	10/05/21 13:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 08:23	10/05/21 13:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 08:23	10/05/21 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	10/05/21 08:23	10/05/21 13:19	1
o-Terphenyl (Surr)	121		70 - 130	10/05/21 08:23	10/05/21 13:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	244		4.98	mg/Kg			10/07/21 22:48	1

Client Sample ID: C-825

Lab Sample ID: 880-6735-46

Date Collected: 10/01/21 09:35

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 00:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 00:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 00:59	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		10/04/21 13:48	10/11/21 00:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 00:59	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:48	10/11/21 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/04/21 13:48	10/11/21 00:59	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/04/21 13:48	10/11/21 00:59	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-825

Lab Sample ID: 880-6735-46

Date Collected: 10/01/21 09:35

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 13:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 13:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 13:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			10/05/21 08:23	10/05/21 13:41	1
o-Terphenyl (Surr)	119		70 - 130			10/05/21 08:23	10/05/21 13:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.0		4.99	mg/Kg			10/07/21 22:53	1

Client Sample ID: C-826

Lab Sample ID: 880-6735-47

Date Collected: 10/01/21 09:36

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 01:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 01:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 01:19	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		10/04/21 13:48	10/11/21 01:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 01:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/21 13:48	10/11/21 01:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			10/04/21 13:48	10/11/21 01:19	1
1,4-Difluorobenzene (Surr)	118		70 - 130			10/04/21 13:48	10/11/21 01:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 08:38	10/04/21 17:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 08:38	10/04/21 17:34	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-826

Lab Sample ID: 880-6735-47

Date Collected: 10/01/21 09:36

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 08:38	10/04/21 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			10/04/21 08:38	10/04/21 17:34	1
o-Terphenyl (Surr)	128		70 - 130			10/04/21 08:38	10/04/21 17:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.8		5.00	mg/Kg			10/07/21 22:59	1

Client Sample ID: C-827

Lab Sample ID: 880-6735-48

Date Collected: 10/01/21 09:37

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:48	10/11/21 01:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:48	10/11/21 01:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:48	10/11/21 01:40	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		10/04/21 13:48	10/11/21 01:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/21 13:48	10/11/21 01:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/21 13:48	10/11/21 01:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			10/04/21 13:48	10/11/21 01:40	1
1,4-Difluorobenzene (Surr)	111		70 - 130			10/04/21 13:48	10/11/21 01:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 08:38	10/04/21 17:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 08:38	10/04/21 17:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 08:38	10/04/21 17:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			10/04/21 08:38	10/04/21 17:56	1
o-Terphenyl (Surr)	120		70 - 130			10/04/21 08:38	10/04/21 17:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.5	F1	5.00	mg/Kg			10/07/21 23:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-828

Lab Sample ID: 880-6735-49

Date Collected: 10/01/21 09:38

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 02:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 02:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 02:01	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/04/21 13:48	10/11/21 02:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 02:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:48	10/11/21 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/04/21 13:48	10/11/21 02:01	1
1,4-Difluorobenzene (Surr)	119		70 - 130	10/04/21 13:48	10/11/21 02:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/04/21 08:38	10/04/21 18:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/04/21 08:38	10/04/21 18:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/04/21 08:38	10/04/21 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130	10/04/21 08:38	10/04/21 18:17	1
o-Terphenyl (Surr)	126		70 - 130	10/04/21 08:38	10/04/21 18:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		4.95	mg/Kg			10/07/21 23:21	1

Client Sample ID: C-829

Lab Sample ID: 880-6735-50

Date Collected: 10/01/21 09:39

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 02:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 02:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 02:21	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/04/21 13:48	10/11/21 02:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 02:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:48	10/11/21 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	10/04/21 13:48	10/11/21 02:21	1
1,4-Difluorobenzene (Surr)	92		70 - 130	10/04/21 13:48	10/11/21 02:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-829

Lab Sample ID: 880-6735-50

Date Collected: 10/01/21 09:39

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/04/21 08:38	10/04/21 18:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/04/21 08:38	10/04/21 18:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/04/21 08:38	10/04/21 18:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			10/04/21 08:38	10/04/21 18:39	1
o-Terphenyl (Surr)	125		70 - 130			10/04/21 08:38	10/04/21 18:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.1		5.04	mg/Kg			10/07/21 23:27	1

Client Sample ID: C-830

Lab Sample ID: 880-6735-51

Date Collected: 10/01/21 09:40

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 03:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 03:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 03:44	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/04/21 13:48	10/11/21 03:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 03:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:48	10/11/21 03:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130			10/04/21 13:48	10/11/21 03:44	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/04/21 13:48	10/11/21 03:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 11:42	10/06/21 12:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 11:42	10/06/21 12:50	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-830

Lab Sample ID: 880-6735-51

Date Collected: 10/01/21 09:40

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 11:42	10/06/21 12:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			10/05/21 11:42	10/06/21 12:50	1
o-Terphenyl (Surr)	111		70 - 130			10/05/21 11:42	10/06/21 12:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		4.97	mg/Kg			10/07/21 23:44	1

Client Sample ID: C-831

Lab Sample ID: 880-6735-52

Date Collected: 10/01/21 09:41

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 04:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 04:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 04:05	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/04/21 13:48	10/11/21 04:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 04:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:48	10/11/21 04:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			10/04/21 13:48	10/11/21 04:05	1
1,4-Difluorobenzene (Surr)	116		70 - 130			10/04/21 13:48	10/11/21 04:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 11:42	10/06/21 13:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 11:42	10/06/21 13:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 11:42	10/06/21 13:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			10/05/21 11:42	10/06/21 13:12	1
o-Terphenyl (Surr)	112		70 - 130			10/05/21 11:42	10/06/21 13:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.1		4.95	mg/Kg			10/07/21 23:49	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-832

Lab Sample ID: 880-6735-53

Date Collected: 10/01/21 09:42

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 04:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 04:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 04:25	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		10/04/21 13:48	10/11/21 04:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 04:25	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/21 13:48	10/11/21 04:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	10/04/21 13:48	10/11/21 04:25	1
1,4-Difluorobenzene (Surr)	113		70 - 130	10/04/21 13:48	10/11/21 04:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 10:43	10/06/21 16:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 10:43	10/06/21 16:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 10:43	10/06/21 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	10/05/21 10:43	10/06/21 16:04	1
o-Terphenyl (Surr)	103		70 - 130	10/05/21 10:43	10/06/21 16:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.1		4.99	mg/Kg			10/07/21 23:55	1

Client Sample ID: C-833

Lab Sample ID: 880-6735-54

Date Collected: 10/01/21 09:43

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 04:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 04:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 04:46	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		10/04/21 13:48	10/11/21 04:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 04:46	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:48	10/11/21 04:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/04/21 13:48	10/11/21 04:46	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/04/21 13:48	10/11/21 04:46	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-833

Lab Sample ID: 880-6735-54

Date Collected: 10/01/21 09:43

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 10:43	10/06/21 16:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 10:43	10/06/21 16:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 10:43	10/06/21 16:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			10/05/21 10:43	10/06/21 16:26	1
o-Terphenyl (Surr)	115		70 - 130			10/05/21 10:43	10/06/21 16:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		5.04	mg/Kg			10/08/21 00:01	1

Client Sample ID: C-834

Lab Sample ID: 880-6735-55

Date Collected: 10/01/21 09:44

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 05:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 05:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 05:07	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		10/04/21 13:48	10/11/21 05:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 05:07	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:48	10/11/21 05:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			10/04/21 13:48	10/11/21 05:07	1
1,4-Difluorobenzene (Surr)	108		70 - 130			10/04/21 13:48	10/11/21 05:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/05/21 10:43	10/06/21 16:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/05/21 10:43	10/06/21 16:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-834

Lab Sample ID: 880-6735-55

Date Collected: 10/01/21 09:44

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/05/21 10:43	10/06/21 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			10/05/21 10:43	10/06/21 16:48	1
o-Terphenyl (Surr)	121		70 - 130			10/05/21 10:43	10/06/21 16:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		4.97	mg/Kg			10/07/21 17:05	1

Client Sample ID: C-835

Lab Sample ID: 880-6735-56

Date Collected: 10/01/21 09:45

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 05:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 05:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 05:27	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		10/04/21 13:48	10/11/21 05:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/11/21 05:27	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/21 13:48	10/11/21 05:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			10/04/21 13:48	10/11/21 05:27	1
1,4-Difluorobenzene (Surr)	71		70 - 130			10/04/21 13:48	10/11/21 05:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 10:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 10:43	10/06/21 17:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 10:43	10/06/21 17:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 10:43	10/06/21 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			10/05/21 10:43	10/06/21 17:10	1
o-Terphenyl (Surr)	111		70 - 130			10/05/21 10:43	10/06/21 17:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.2		4.96	mg/Kg			10/07/21 17:11	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-836

Lab Sample ID: 880-6735-57

Date Collected: 10/01/21 09:46

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:48	10/11/21 05:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:48	10/11/21 05:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:48	10/11/21 05:48	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		10/04/21 13:48	10/11/21 05:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/21 13:48	10/11/21 05:48	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/04/21 13:48	10/11/21 05:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	10/04/21 13:48	10/11/21 05:48	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/04/21 13:48	10/11/21 05:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/06/21 11:13	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 10:43	10/06/21 17:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 10:43	10/06/21 17:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 10:43	10/06/21 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	10/05/21 10:43	10/06/21 17:32	1
o-Terphenyl (Surr)	107		70 - 130	10/05/21 10:43	10/06/21 17:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		4.98	mg/Kg			10/07/21 17:16	1

Client Sample ID: C-837

Lab Sample ID: 880-6735-58

Date Collected: 10/01/21 09:47

Matrix: Solid

Date Received: 10/01/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 06:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 06:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 06:09	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/04/21 13:48	10/11/21 06:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/21 13:48	10/11/21 06:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/21 13:48	10/11/21 06:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/04/21 13:48	10/11/21 06:09	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/04/21 13:48	10/11/21 06:09	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-837

Lab Sample ID: 880-6735-58

Date Collected: 10/01/21 09:47

Matrix: Solid

Date Received: 10/01/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/11/21 10:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/06/21 11:13	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/05/21 10:43	10/06/21 17:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/05/21 10:43	10/06/21 17:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/05/21 10:43	10/06/21 17:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			10/05/21 10:43	10/06/21 17:53	1
o-Terphenyl (Surr)	111		70 - 130			10/05/21 10:43	10/06/21 17:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		4.95	mg/Kg			10/07/21 17:22	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-6735-1	C-780	146 S1+	95
880-6735-1 MS	C-780	70	78
880-6735-1 MSD	C-780	145 S1+	114
880-6735-2	C-781	127	76
880-6735-3	C-782	148 S1+	115
880-6735-4	C-783	134 S1+	105
880-6735-5	C-784	138 S1+	111
880-6735-6	C-785	113	98
880-6735-7	C-786	115	90
880-6735-8	C-787	146 S1+	104
880-6735-9	C-788	131 S1+	103
880-6735-10	C-789	150 S1+	109
880-6735-11	C-790	128	81
880-6735-12	C-791	134 S1+	103
880-6735-13	C-792	129	98
880-6735-14	C-793	132 S1+	103
880-6735-15	C-794	138 S1+	104
880-6735-16	C-795	151 S1+	98
880-6735-17	C-796	146 S1+	111
880-6735-18	C-797	147 S1+	110
880-6735-19	C-798	154 S1+	112
880-6735-20	C-799	291 S1+	90
880-6735-21	C-800	163 S1+	86
880-6735-21 MS	C-800	118	72
880-6735-21 MSD	C-800	127	77
880-6735-22	C-801	102	66 S1-
880-6735-23	C-802	147 S1+	102
880-6735-24	C-803	142 S1+	81
880-6735-25	C-804	152 S1+	80
880-6735-26	C-805	136 S1+	68 S1-
880-6735-27	C-806	133 S1+	85
880-6735-28	C-807	151 S1+	83
880-6735-29	C-808	126	88
880-6735-30	C-809	147 S1+	78
880-6735-31	C-810	94	113
880-6735-32	C-811	151 S1+	69 S1-
880-6735-33	C-812	145 S1+	82
880-6735-34	C-813	160 S1+	78
880-6735-35	C-814	143 S1+	80
880-6735-36	C-815	146 S1+	83
880-6735-37	C-816	143 S1+	85
880-6735-38	C-817	131 S1+	84
880-6735-39	C-818	132 S1+	79
880-6735-40	C-819	123	70
880-6735-41	C-820	103	78
880-6735-41 MS	C-820	178 S1+	173 S1+
880-6735-41 MSD	C-820	101	117
880-6735-42	C-821	104	85
880-6735-43	C-822	108	104

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6735-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-6735-44	C-823	86	101
880-6735-45	C-824	161 S1+	156 S1+
880-6735-46	C-825	102	102
880-6735-47	C-826	106	118
880-6735-48	C-827	108	111
880-6735-49	C-828	99	119
880-6735-50	C-829	80	92
880-6735-51	C-830	71	104
880-6735-52	C-831	126	116
880-6735-53	C-832	87	113
880-6735-54	C-833	92	96
880-6735-55	C-834	90	108
880-6735-56	C-835	80	71
880-6735-57	C-836	125	96
880-6735-58	C-837	108	101
LCS 880-8808/1-A	Lab Control Sample	125	106
LCS 880-8831/1-A	Lab Control Sample	113	72
LCS 880-8833/1-A	Lab Control Sample	89	102
LCSD 880-8808/2-A	Lab Control Sample Dup	138 S1+	106
LCSD 880-8831/2-A	Lab Control Sample Dup	111	74
LCSD 880-8833/2-A	Lab Control Sample Dup	99	89
MB 880-8808/5-A	Method Blank	81	96
MB 880-8831/5-A	Method Blank	110	84
MB 880-8833/5-A	Method Blank	108	105
MB 880-8852/5-A	Method Blank	108	76
MB 880-8854/5-A	Method Blank	103	85

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-6727-A-1-C MS	Matrix Spike	118	114
880-6727-A-1-D MSD	Matrix Spike Duplicate	104	102
880-6735-1	C-780	105	125
880-6735-1 MS	C-780	108	115
880-6735-1 MSD	C-780	107	113
880-6735-2	C-781	107	126
880-6735-3	C-782	101	118
880-6735-4	C-783	108	123
880-6735-5	C-784	97	112
880-6735-6	C-785	107	123
880-6735-7	C-786	103	120
880-6735-8	C-787	107	123
880-6735-9	C-788	107	123
880-6735-10	C-789	102	118

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6735-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6735-11	C-790	110	130
880-6735-12	C-791	105	123
880-6735-13	C-792	107	124
880-6735-14	C-793	103	119
880-6735-15	C-794	100	115
880-6735-16	C-795	105	120
880-6735-17	C-796	107	125
880-6735-18	C-797	105	123
880-6735-19	C-798	105	123
880-6735-20	C-799	107	124
880-6735-21	C-800	119	128
880-6735-21 MS	C-800	108	106
880-6735-21 MSD	C-800	112	110
880-6735-22	C-801	107	113
880-6735-23	C-802	110	121
880-6735-24	C-803	111	123
880-6735-25	C-804	113	120
880-6735-26	C-805	120	128
880-6735-27	C-806	117	129
880-6735-28	C-807	108	114
880-6735-29	C-808	60 S1-	119
880-6735-30	C-809	116	126
880-6735-31	C-810	116	128
880-6735-32	C-811	110	114
880-6735-33	C-812	107	111
880-6735-34	C-813	112	119
880-6735-35	C-814	113	119
880-6735-36	C-815	114	123
880-6735-37	C-816	112	120
880-6735-38	C-817	112	115
880-6735-39	C-818	112	121
880-6735-40	C-819	115	126
880-6735-41	C-820	101	109
880-6735-41 MS	C-820	104	99
880-6735-41 MSD	C-820	105	101
880-6735-42	C-821	117	134 S1+
880-6735-42 MS	C-821	103	98
880-6735-42 MSD	C-821	103	100
880-6735-43	C-822	104	116
880-6735-44	C-823	113	125
880-6735-45	C-824	106	121
880-6735-46	C-825	105	119
880-6735-47	C-826	116	128
880-6735-48	C-827	112	120
880-6735-49	C-828	115	126
880-6735-50	C-829	112	125
880-6735-51	C-830	103	111
880-6735-52	C-831	104	112
880-6735-53	C-832	103	103
880-6735-54	C-833	114	115

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6735-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6735-55	C-834	117	121
880-6735-56	C-835	107	111
880-6735-57	C-836	100	107
880-6735-58	C-837	104	111
880-6736-A-61-B MS	Matrix Spike	115	111
880-6736-A-61-C MSD	Matrix Spike Duplicate	107	103
LCS 880-8781/2-A	Lab Control Sample	125	124
LCS 880-8877/2-A	Lab Control Sample	104	101
LCS 880-8891/2-A	Lab Control Sample	100	103
LCS 880-8894/2-A	Lab Control Sample	92	87
LCS 880-8916/2-A	Lab Control Sample	101	110
LCS 880-8917/2-A	Lab Control Sample	92	90
LCSD 880-8781/3-A	Lab Control Sample Dup	113	109
LCSD 880-8877/3-A	Lab Control Sample Dup	106	111
LCSD 880-8891/3-A	Lab Control Sample Dup	102	99
LCSD 880-8894/3-A	Lab Control Sample Dup	96	92
LCSD 880-8916/3-A	Lab Control Sample Dup	106	112
LCSD 880-8917/3-A	Lab Control Sample Dup	101	98
MB 880-8781/1-A	Method Blank	112	121
MB 880-8877/1-A	Method Blank	112	129
MB 880-8891/1-A	Method Blank	111	125
MB 880-8894/1-A	Method Blank	101	108
MB 880-8916/1-A	Method Blank	113	135 S1+
MB 880-8917/1-A	Method Blank	115	128

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8808/5-A

Matrix: Solid

Analysis Batch: 8965

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8808

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:43	10/07/21 00:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:43	10/07/21 00:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:43	10/07/21 00:44	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/04/21 13:43	10/07/21 00:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:43	10/07/21 00:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:43	10/07/21 00:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	10/04/21 13:43	10/07/21 00:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/04/21 13:43	10/07/21 00:44	1

Lab Sample ID: LCS 880-8808/1-A

Matrix: Solid

Analysis Batch: 8965

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.06520	*-	mg/Kg		65	70 - 130
Toluene	0.100	0.06253	*-	mg/Kg		63	70 - 130
Ethylbenzene	0.100	0.06831	*-	mg/Kg		68	70 - 130
m,p-Xylenes	0.200	0.1502		mg/Kg		75	70 - 130
o-Xylene	0.100	0.08031		mg/Kg		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-8808/2-A

Matrix: Solid

Analysis Batch: 8965

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8808

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09675	*1	mg/Kg		97	70 - 130	39	35
Toluene	0.100	0.08720		mg/Kg		87	70 - 130	33	35
Ethylbenzene	0.100	0.09820	*1	mg/Kg		98	70 - 130	36	35
m,p-Xylenes	0.200	0.2152	*1	mg/Kg		108	70 - 130	36	35
o-Xylene	0.100	0.1114		mg/Kg		111	70 - 130	32	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-6735-1 MS

Matrix: Solid

Analysis Batch: 8965

Client Sample ID: C-780

Prep Type: Total/NA

Prep Batch: 8808

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U *1 *-	0.0994	0.08886		mg/Kg		89	70 - 130
Toluene	<0.00202	U *-	0.0994	0.1020		mg/Kg		103	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6735-1 MS

Matrix: Solid

Analysis Batch: 8965

Client Sample ID: C-780

Prep Type: Total/NA

Prep Batch: 8808

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00202	U *1 *	0.0994	0.08540		mg/Kg		86	70 - 130
m,p-Xylenes	<0.00404	U *1	0.199	0.1962		mg/Kg		99	70 - 130
o-Xylene	<0.00202	U	0.0994	0.1203		mg/Kg		121	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	70		70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: 880-6735-1 MSD

Matrix: Solid

Analysis Batch: 8965

Client Sample ID: C-780

Prep Type: Total/NA

Prep Batch: 8808

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U *1 *	0.0994	0.08588		mg/Kg		86	70 - 130	3	35
Toluene	<0.00202	U *	0.0994	0.07837		mg/Kg		79	70 - 130	26	35
Ethylbenzene	<0.00202	U *1 *	0.0994	0.08706		mg/Kg		88	70 - 130	2	35
m,p-Xylenes	<0.00404	U *1	0.199	0.1865		mg/Kg		94	70 - 130	5	35
o-Xylene	<0.00202	U	0.0994	0.09739		mg/Kg		98	70 - 130	21	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: MB 880-8831/5-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8831

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 00:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 00:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 00:15	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/04/21 13:46	10/11/21 00:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:46	10/11/21 00:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:46	10/11/21 00:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/04/21 13:46	10/11/21 00:15	1
1,4-Difluorobenzene (Surr)	84		70 - 130	10/04/21 13:46	10/11/21 00:15	1

Lab Sample ID: LCS 880-8831/1-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8831

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08136		mg/Kg		81	70 - 130
Toluene	0.100	0.08956		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.09082		mg/Kg		91	70 - 130
m,p-Xylenes	0.200	0.1923		mg/Kg		96	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8831/1-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8831

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.09742		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	72		70 - 130

Lab Sample ID: LCSD 880-8831/2-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8831

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08486		mg/Kg		85	70 - 130	4	35
Toluene	0.100	0.09316		mg/Kg		93	70 - 130	4	35
Ethylbenzene	0.100	0.09381		mg/Kg		94	70 - 130	3	35
m,p-Xylenes	0.200	0.1984		mg/Kg		99	70 - 130	3	35
o-Xylene	0.100	0.09965		mg/Kg		100	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Lab Sample ID: 880-6735-21 MS

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: C-800

Prep Type: Total/NA

Prep Batch: 8831

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.06052	F1	mg/Kg		60	70 - 130
Toluene	<0.00199	U F1	0.100	0.05545	F1	mg/Kg		55	70 - 130
Ethylbenzene	<0.00199	U F1	0.100	0.04876	F1	mg/Kg		49	70 - 130
m,p-Xylenes	<0.00398	U F1	0.200	0.09667	F1	mg/Kg		48	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.05336	F1	mg/Kg		53	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	72		70 - 130

Lab Sample ID: 880-6735-21 MSD

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: C-800

Prep Type: Total/NA

Prep Batch: 8831

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0990	0.05727	F1	mg/Kg		58	70 - 130	6	35
Toluene	<0.00199	U F1	0.0990	0.05139	F1	mg/Kg		52	70 - 130	8	35
Ethylbenzene	<0.00199	U F1	0.0990	0.04362	F1	mg/Kg		44	70 - 130	11	35
m,p-Xylenes	<0.00398	U F1	0.198	0.08485	F1	mg/Kg		43	70 - 130	13	35
o-Xylene	<0.00199	U F1	0.0990	0.04958	F1	mg/Kg		50	70 - 130	7	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6735-21 MSD

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: C-800

Prep Type: Total/NA

Prep Batch: 8831

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: MB 880-8833/5-A

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8833

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/10/21 22:54	1	
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/10/21 22:54	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/10/21 22:54	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/04/21 13:48	10/10/21 22:54	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 13:48	10/10/21 22:54	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 13:48	10/10/21 22:54	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			10/04/21 13:48	10/10/21 22:54	1	
1,4-Difluorobenzene (Surr)	105		70 - 130			10/04/21 13:48	10/10/21 22:54	1	

Lab Sample ID: LCS 880-8833/1-A

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8833

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.07652		mg/Kg		77	70 - 130		
Toluene	0.100	0.09387		mg/Kg		94	70 - 130		
Ethylbenzene	0.100	0.09554		mg/Kg		96	70 - 130		
m,p-Xylenes	0.200	0.1644		mg/Kg		82	70 - 130		
o-Xylene	0.100	0.07736		mg/Kg		77	70 - 130		

	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: LCSD 880-8833/2-A

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8833

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07139		mg/Kg		71	70 - 130	7	35	
Toluene	0.100	0.09568		mg/Kg		96	70 - 130	2	35	
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	11	35	
m,p-Xylenes	0.200	0.1676		mg/Kg		84	70 - 130	2	35	
o-Xylene	0.100	0.08411		mg/Kg		84	70 - 130	8	35	

	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	99		70 - 130							

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-8833/2-A

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8833

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-6735-41 MS

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: C-820

Prep Type: Total/NA

Prep Batch: 8833

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F2 F1	0.0998	0.01746	F1	mg/Kg		17	70 - 130	
Toluene	<0.00199	U F2 F1	0.0998	0.1395	F1	mg/Kg		140	70 - 130	
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.08502		mg/Kg		85	70 - 130	
m,p-Xylenes	<0.00398	U F2 F1	0.200	0.2150		mg/Kg		108	70 - 130	
o-Xylene	<0.00199	U F1	0.0998	0.06562	F1	mg/Kg		66	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130
1,4-Difluorobenzene (Surr)	173	S1+	70 - 130

Lab Sample ID: 880-6735-41 MSD

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: C-820

Prep Type: Total/NA

Prep Batch: 8833

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00199	U F2 F1	0.0998	0.05118	F2 F1	mg/Kg		51	70 - 130	98	35	
Toluene	<0.00199	U F2 F1	0.0998	0.06268	F2 F1	mg/Kg		63	70 - 130	76	35	
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.05148	F2 F1	mg/Kg		52	70 - 130	49	35	
m,p-Xylenes	<0.00398	U F2 F1	0.200	0.1000	F2 F1	mg/Kg		50	70 - 130	73	35	
o-Xylene	<0.00199	U F1	0.0998	0.05019	F1	mg/Kg		50	70 - 130	27	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: MB 880-8852/5-A

Matrix: Solid

Analysis Batch: 9112

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8852

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 14:35	10/10/21 13:23	1		
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 14:35	10/10/21 13:23	1		
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 14:35	10/10/21 13:23	1		
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/04/21 14:35	10/10/21 13:23	1		
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 14:35	10/10/21 13:23	1		
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 14:35	10/10/21 13:23	1		

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	108		70 - 130	10/04/21 14:35	10/10/21 13:23	1				
1,4-Difluorobenzene (Surr)	76		70 - 130	10/04/21 14:35	10/10/21 13:23	1				

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8854/5-A

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8854

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/21 14:40	10/10/21 11:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/21 14:40	10/10/21 11:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/21 14:40	10/10/21 11:52	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/04/21 14:40	10/10/21 11:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/21 14:40	10/10/21 11:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/21 14:40	10/10/21 11:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/04/21 14:40	10/10/21 11:52	1
1,4-Difluorobenzene (Surr)	85		70 - 130	10/04/21 14:40	10/10/21 11:52	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-8781/1-A

Matrix: Solid

Analysis Batch: 8775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8781

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/04/21 08:38	10/04/21 11:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/04/21 08:38	10/04/21 11:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/04/21 08:38	10/04/21 11:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	10/04/21 08:38	10/04/21 11:30	1
o-Terphenyl (Surr)	121		70 - 130	10/04/21 08:38	10/04/21 11:30	1

Lab Sample ID: LCS 880-8781/2-A

Matrix: Solid

Analysis Batch: 8775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8781

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	982.3		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1230		mg/Kg		123	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	125		70 - 130
o-Terphenyl (Surr)	124		70 - 130

Lab Sample ID: LCSD 880-8781/3-A

Matrix: Solid

Analysis Batch: 8775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8781

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	961.6		mg/Kg		96	70 - 130	2	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8781/3-A

Matrix: Solid

Analysis Batch: 8775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8781

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	1059		mg/Kg		106	70 - 130	15	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	113		70 - 130						
o-Terphenyl (Surr)	109		70 - 130						

Lab Sample ID: 880-6736-A-61-B MS

Matrix: Solid

Analysis Batch: 8775

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8781

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	890.7		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	995	1007		mg/Kg		101	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	115		70 - 130								
o-Terphenyl (Surr)	111		70 - 130								

Lab Sample ID: 880-6736-A-61-C MSD

Matrix: Solid

Analysis Batch: 8775

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8781

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	803.0		mg/Kg		78	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	947.5		mg/Kg		95	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	107		70 - 130								
o-Terphenyl (Surr)	103		70 - 130								

Lab Sample ID: MB 880-8877/1-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8877

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 10:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 10:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 08:23	10/05/21 10:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	112		70 - 130	10/05/21 08:23	10/05/21 10:26	1		
o-Terphenyl (Surr)	129		70 - 130	10/05/21 08:23	10/05/21 10:26	1		

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-8877/2-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8877

Analyte			Spike	LCS	LCS	Unit	D	%Rec.		
			Added	Result	Qualifier			Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	884.0		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	920.7		mg/Kg		92	70 - 130	

Lab Sample ID: LCSD 880-8877/3-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8877

			Spike	LCSD	LCSD				%Rec.			RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	928.7		mg/Kg		93	70 - 130	5	20	
Diesel Range Organics (Over C10-C28)			1000	966.7		mg/Kg		97	70 - 130	5	20	
			LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	106		70 - 130									
o-Terphenyl (Surr)	111		70 - 130									

Lab Sample ID: 880-6735-42 MS

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: C-821

Prep Type: Total/NA

Prep Batch: 8877

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	943.1		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	995	854.2		mg/Kg		86	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	103		70 - 130								
o-Terphenyl (Surr)	98		70 - 130								

Lab Sample ID: 880-6735-42 MSD

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: C-821

Prep Type: Total/NA

Prep Batch: 8877

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	979.0		mg/Kg		96	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	871.0		mg/Kg		87	70 - 130	2	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6735-42 MSD

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: C-821

Prep Type: Total/NA

Prep Batch: 8877

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	100		70 - 130

Lab Sample ID: MB 880-8891/1-A

Matrix: Solid

Analysis Batch: 8949

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8891

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 10:20	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 10:20	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 10:23	10/06/21 10:20	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	111		70 - 130			10/05/21 10:23	10/06/21 10:20	1	
<i>o</i> -Terphenyl (Surr)	125		70 - 130			10/05/21 10:23	10/06/21 10:20	1	

Lab Sample ID: LCS 880-8891/2-A

Matrix: Solid

Analysis Batch: 8949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8891

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10		1000	875.7		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	920.6		mg/Kg		92	70 - 130	
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	100		70 - 130						
<i>o</i> -Terphenyl (Surr)	103		70 - 130						

Lab Sample ID: LCSD 880-8891/3-A

Matrix: Solid

Analysis Batch: 8949

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8891

		Spike	LCSD	LCSD				%Rec.		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10		1000	886.4		mg/Kg		89	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)		1000	926.4		mg/Kg		93	70 - 130	1	20	
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	102		70 - 130								
<i>o</i> -Terphenyl (Surr)	99		70 - 130								

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6735-21 MS

Matrix: Solid

Analysis Batch: 8949

Client Sample ID: C-800

Prep Type: Total/NA

Prep Batch: 8891

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	970.9		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	995	912.0		mg/Kg		89	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	108		70 - 130						
o-Terphenyl (Surr)	106		70 - 130						

Lab Sample ID: 880-6735-21 MSD

Matrix: Solid

Analysis Batch: 8949

Client Sample ID: C-800

Prep Type: Total/NA

Prep Batch: 8891

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	999.9		mg/Kg		100	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	959.2		mg/Kg		94	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	112		70 - 130								
o-Terphenyl (Surr)	110		70 - 130								

Lab Sample ID: MB 880-8894/1-A

Matrix: Solid

Analysis Batch: 8951

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8894

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 10:43	10/06/21 10:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 10:43	10/06/21 10:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 10:43	10/06/21 10:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			10/05/21 10:43	10/06/21 10:20	1
o-Terphenyl (Surr)	108		70 - 130			10/05/21 10:43	10/06/21 10:20	1

Lab Sample ID: LCS 880-8894/2-A

Matrix: Solid

Analysis Batch: 8951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	895.3		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	779.7		mg/Kg		78	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-8894/2-A

Matrix: Solid

Analysis Batch: 8951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8894

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-8894/3-A

Matrix: Solid

Analysis Batch: 8951

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8894

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	890.9		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	821.6		mg/Kg		82	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	96		70 - 130
o-Terphenyl (Surr)	92		70 - 130

Lab Sample ID: 880-6727-A-1-C MS

Matrix: Solid

Analysis Batch: 8951

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8894

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	995	1258		mg/Kg		124	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	995	971.0		mg/Kg		96	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	118		70 - 130
o-Terphenyl (Surr)	114		70 - 130

Lab Sample ID: 880-6727-A-1-D MSD

Matrix: Solid

Analysis Batch: 8951

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8894

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	997	980.9	F2	mg/Kg		96	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	877.7		mg/Kg		86	70 - 130	10	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	102		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-8916/1-A

Matrix: Solid

Analysis Batch: 8953

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8916

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 10:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 10:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 11:28	10/06/21 10:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			10/05/21 11:28	10/06/21 10:40	1
o-Terphenyl (Surr)	135	S1+	70 - 130			10/05/21 11:28	10/06/21 10:40	1

Lab Sample ID: LCS 880-8916/2-A

Matrix: Solid

Analysis Batch: 8953

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8916

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	819.7		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	912.2		mg/Kg		91	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	101		70 - 130				
o-Terphenyl (Surr)	110		70 - 130				

Lab Sample ID: LCSD 880-8916/3-A

Matrix: Solid

Analysis Batch: 8953

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8916

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	911.5		mg/Kg		91	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	942.3		mg/Kg		94	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	106		70 - 130						
o-Terphenyl (Surr)	112		70 - 130						

Lab Sample ID: 880-6735-1 MS

Matrix: Solid

Analysis Batch: 8953

Client Sample ID: C-780

Prep Type: Total/NA

Prep Batch: 8916

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	843.3		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	995	910.9		mg/Kg		92	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6735-1 MS

Matrix: Solid

Analysis Batch: 8953

Client Sample ID: C-780

Prep Type: Total/NA

Prep Batch: 8916

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	115		70 - 130

Lab Sample ID: 880-6735-1 MSD

Matrix: Solid

Analysis Batch: 8953

Client Sample ID: C-780

Prep Type: Total/NA

Prep Batch: 8916

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	848.8		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	907.8		mg/Kg		91	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	113		70 - 130

Lab Sample ID: MB 880-8917/1-A

Matrix: Solid

Analysis Batch: 8955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8917

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/05/21 11:42	10/06/21 10:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/05/21 11:42	10/06/21 10:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/05/21 11:42	10/06/21 10:40	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	115		70 - 130	10/05/21 11:42	10/06/21 10:40	1		
o-Terphenyl (Surr)	128		70 - 130	10/05/21 11:42	10/06/21 10:40	1		

Lab Sample ID: LCS 880-8917/2-A

Matrix: Solid

Analysis Batch: 8955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	834.2		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	879.4		mg/Kg		88	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	90		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8917/3-A

Matrix: Solid

Analysis Batch: 8955

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8917

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	907.8		mg/Kg		91	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	959.2		mg/Kg		96	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	101		70 - 130						
o-Terphenyl (Surr)	98		70 - 130						

Lab Sample ID: 880-6735-41 MS

Matrix: Solid

Analysis Batch: 8955

Client Sample ID: C-820

Prep Type: Total/NA

Prep Batch: 8917

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	805.6		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	995	952.0		mg/Kg		96	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	104		70 - 130								
o-Terphenyl (Surr)	99		70 - 130								

Lab Sample ID: 880-6735-41 MSD

Matrix: Solid

Analysis Batch: 8955

Client Sample ID: C-820

Prep Type: Total/NA

Prep Batch: 8917

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	921.2		mg/Kg		92	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	966.2		mg/Kg		97	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	105		70 - 130								
o-Terphenyl (Surr)	101		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8807/1-A

Matrix: Solid

Analysis Batch: 8983

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/07/21 14:34	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-8807/2-A

Matrix: Solid

Analysis Batch: 8983

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	274.1		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-8807/3-A

Matrix: Solid

Analysis Batch: 8983

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	274.8		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-6713-A-19-D MS

Matrix: Solid

Analysis Batch: 8983

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	936		250	1200		mg/Kg		106	90 - 110

Lab Sample ID: 880-6713-A-19-E MSD

Matrix: Solid

Analysis Batch: 8983

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	936		250	1203		mg/Kg		107	90 - 110	0	20

Lab Sample ID: MB 880-8896/1-A

Matrix: Solid

Analysis Batch: 8984

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/07/21 12:30	1

Lab Sample ID: LCS 880-8896/2-A

Matrix: Solid

Analysis Batch: 8984

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.9		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-8896/3-A

Matrix: Solid

Analysis Batch: 8984

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	248.3		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-6735-8 MS

Matrix: Solid

Analysis Batch: 8984

Client Sample ID: C-787

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	151		248	392.0		mg/Kg		97	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-6735-8 MSD

Matrix: Solid

Analysis Batch: 8984

Client Sample ID: C-787

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	151		248	394.4		mg/Kg		98	90 - 110	1	20

Lab Sample ID: MB 880-8897/1-A

Matrix: Solid

Analysis Batch: 9054

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/07/21 17:02	1

Lab Sample ID: LCS 880-8897/2-A

Matrix: Solid

Analysis Batch: 9054

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	257.2		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-8897/3-A

Matrix: Solid

Analysis Batch: 9054

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	259.1		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-6735-18 MS

Matrix: Solid

Analysis Batch: 9054

Client Sample ID: C-797

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	380		249	626.3		mg/Kg		99	90 - 110

Lab Sample ID: 880-6735-18 MSD

Matrix: Solid

Analysis Batch: 9054

Client Sample ID: C-797

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	380		248	624.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-6735-28 MS

Matrix: Solid

Analysis Batch: 9054

Client Sample ID: C-807

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	21.2		248	286.0		mg/Kg		107	90 - 110

Lab Sample ID: 880-6735-28 MSD

Matrix: Solid

Analysis Batch: 9054

Client Sample ID: C-807

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	21.2		248	285.8		mg/Kg		107	90 - 110	0	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8898/1-A

Matrix: Solid

Analysis Batch: 9057

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/07/21 21:29	1

Lab Sample ID: LCS 880-8898/2-A

Matrix: Solid

Analysis Batch: 9057

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	254.0		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-8898/3-A

Matrix: Solid

Analysis Batch: 9057

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	255.0		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-6735-38 MS

Matrix: Solid

Analysis Batch: 9057

Client Sample ID: C-817

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	197	F1	253	481.5	F1	mg/Kg		113	90 - 110

Lab Sample ID: 880-6735-38 MSD

Matrix: Solid

Analysis Batch: 9057

Client Sample ID: C-817

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	197	F1	253	482.5	F1	mg/Kg		113	90 - 110	0	20

Lab Sample ID: 880-6735-48 MS

Matrix: Solid

Analysis Batch: 9057

Client Sample ID: C-827

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	98.5	F1	250	377.9	F1	mg/Kg		112	90 - 110

Lab Sample ID: 880-6735-48 MSD

Matrix: Solid

Analysis Batch: 9057

Client Sample ID: C-827

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	98.5	F1	250	378.7	F1	mg/Kg		112	90 - 110	0	20

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

GC VOA

Prep Batch: 8808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-1	C-780	Total/NA	Solid	5035	
880-6735-2	C-781	Total/NA	Solid	5035	
880-6735-3	C-782	Total/NA	Solid	5035	
880-6735-4	C-783	Total/NA	Solid	5035	
880-6735-5	C-784	Total/NA	Solid	5035	
880-6735-6	C-785	Total/NA	Solid	5035	
880-6735-7	C-786	Total/NA	Solid	5035	
880-6735-8	C-787	Total/NA	Solid	5035	
880-6735-9	C-788	Total/NA	Solid	5035	
880-6735-10	C-789	Total/NA	Solid	5035	
880-6735-11	C-790	Total/NA	Solid	5035	
880-6735-12	C-791	Total/NA	Solid	5035	
880-6735-13	C-792	Total/NA	Solid	5035	
880-6735-14	C-793	Total/NA	Solid	5035	
880-6735-15	C-794	Total/NA	Solid	5035	
880-6735-16	C-795	Total/NA	Solid	5035	
880-6735-17	C-796	Total/NA	Solid	5035	
880-6735-18	C-797	Total/NA	Solid	5035	
880-6735-19	C-798	Total/NA	Solid	5035	
880-6735-20	C-799	Total/NA	Solid	5035	
MB 880-8808/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8808/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8808/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6735-1 MS	C-780	Total/NA	Solid	5035	
880-6735-1 MSD	C-780	Total/NA	Solid	5035	

Prep Batch: 8831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-21	C-800	Total/NA	Solid	5035	
880-6735-22	C-801	Total/NA	Solid	5035	
880-6735-23	C-802	Total/NA	Solid	5035	
880-6735-24	C-803	Total/NA	Solid	5035	
880-6735-25	C-804	Total/NA	Solid	5035	
880-6735-26	C-805	Total/NA	Solid	5035	
880-6735-27	C-806	Total/NA	Solid	5035	
880-6735-28	C-807	Total/NA	Solid	5035	
880-6735-29	C-808	Total/NA	Solid	5035	
880-6735-30	C-809	Total/NA	Solid	5035	
880-6735-31	C-810	Total/NA	Solid	5035	
880-6735-32	C-811	Total/NA	Solid	5035	
880-6735-33	C-812	Total/NA	Solid	5035	
880-6735-34	C-813	Total/NA	Solid	5035	
880-6735-35	C-814	Total/NA	Solid	5035	
880-6735-36	C-815	Total/NA	Solid	5035	
880-6735-37	C-816	Total/NA	Solid	5035	
880-6735-38	C-817	Total/NA	Solid	5035	
880-6735-39	C-818	Total/NA	Solid	5035	
880-6735-40	C-819	Total/NA	Solid	5035	
MB 880-8831/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8831/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8831/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 8831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-21 MS	C-800	Total/NA	Solid	5035	
880-6735-21 MSD	C-800	Total/NA	Solid	5035	

Prep Batch: 8833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-41	C-820	Total/NA	Solid	5035	
880-6735-42	C-821	Total/NA	Solid	5035	
880-6735-43	C-822	Total/NA	Solid	5035	
880-6735-44	C-823	Total/NA	Solid	5035	
880-6735-45	C-824	Total/NA	Solid	5035	
880-6735-46	C-825	Total/NA	Solid	5035	
880-6735-47	C-826	Total/NA	Solid	5035	
880-6735-48	C-827	Total/NA	Solid	5035	
880-6735-49	C-828	Total/NA	Solid	5035	
880-6735-50	C-829	Total/NA	Solid	5035	
880-6735-51	C-830	Total/NA	Solid	5035	
880-6735-52	C-831	Total/NA	Solid	5035	
880-6735-53	C-832	Total/NA	Solid	5035	
880-6735-54	C-833	Total/NA	Solid	5035	
880-6735-55	C-834	Total/NA	Solid	5035	
880-6735-56	C-835	Total/NA	Solid	5035	
880-6735-57	C-836	Total/NA	Solid	5035	
880-6735-58	C-837	Total/NA	Solid	5035	
MB 880-8833/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8833/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8833/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6735-41 MS	C-820	Total/NA	Solid	5035	
880-6735-41 MSD	C-820	Total/NA	Solid	5035	

Prep Batch: 8852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8852/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8854/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 8965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-1	C-780	Total/NA	Solid	8021B	8808
880-6735-2	C-781	Total/NA	Solid	8021B	8808
880-6735-3	C-782	Total/NA	Solid	8021B	8808
880-6735-4	C-783	Total/NA	Solid	8021B	8808
880-6735-5	C-784	Total/NA	Solid	8021B	8808
880-6735-6	C-785	Total/NA	Solid	8021B	8808
880-6735-7	C-786	Total/NA	Solid	8021B	8808
880-6735-8	C-787	Total/NA	Solid	8021B	8808
880-6735-9	C-788	Total/NA	Solid	8021B	8808
880-6735-10	C-789	Total/NA	Solid	8021B	8808
880-6735-11	C-790	Total/NA	Solid	8021B	8808
880-6735-12	C-791	Total/NA	Solid	8021B	8808

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8965 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-13	C-792	Total/NA	Solid	8021B	8808
880-6735-14	C-793	Total/NA	Solid	8021B	8808
880-6735-15	C-794	Total/NA	Solid	8021B	8808
880-6735-16	C-795	Total/NA	Solid	8021B	8808
880-6735-17	C-796	Total/NA	Solid	8021B	8808
880-6735-18	C-797	Total/NA	Solid	8021B	8808
880-6735-19	C-798	Total/NA	Solid	8021B	8808
880-6735-20	C-799	Total/NA	Solid	8021B	8808
MB 880-8808/5-A	Method Blank	Total/NA	Solid	8021B	8808
LCS 880-8808/1-A	Lab Control Sample	Total/NA	Solid	8021B	8808
LCSD 880-8808/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8808
880-6735-1 MS	C-780	Total/NA	Solid	8021B	8808
880-6735-1 MSD	C-780	Total/NA	Solid	8021B	8808

Analysis Batch: 9061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-1	C-780	Total/NA	Solid	Total BTEX	
880-6735-2	C-781	Total/NA	Solid	Total BTEX	
880-6735-3	C-782	Total/NA	Solid	Total BTEX	
880-6735-4	C-783	Total/NA	Solid	Total BTEX	
880-6735-5	C-784	Total/NA	Solid	Total BTEX	
880-6735-6	C-785	Total/NA	Solid	Total BTEX	
880-6735-7	C-786	Total/NA	Solid	Total BTEX	
880-6735-8	C-787	Total/NA	Solid	Total BTEX	
880-6735-9	C-788	Total/NA	Solid	Total BTEX	
880-6735-10	C-789	Total/NA	Solid	Total BTEX	
880-6735-11	C-790	Total/NA	Solid	Total BTEX	
880-6735-12	C-791	Total/NA	Solid	Total BTEX	
880-6735-13	C-792	Total/NA	Solid	Total BTEX	
880-6735-14	C-793	Total/NA	Solid	Total BTEX	
880-6735-15	C-794	Total/NA	Solid	Total BTEX	
880-6735-16	C-795	Total/NA	Solid	Total BTEX	
880-6735-17	C-796	Total/NA	Solid	Total BTEX	
880-6735-18	C-797	Total/NA	Solid	Total BTEX	
880-6735-19	C-798	Total/NA	Solid	Total BTEX	
880-6735-20	C-799	Total/NA	Solid	Total BTEX	

Analysis Batch: 9112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-21	C-800	Total/NA	Solid	8021B	8831
880-6735-22	C-801	Total/NA	Solid	8021B	8831
880-6735-23	C-802	Total/NA	Solid	8021B	8831
880-6735-24	C-803	Total/NA	Solid	8021B	8831
880-6735-25	C-804	Total/NA	Solid	8021B	8831
880-6735-26	C-805	Total/NA	Solid	8021B	8831
880-6735-27	C-806	Total/NA	Solid	8021B	8831
880-6735-28	C-807	Total/NA	Solid	8021B	8831
880-6735-29	C-808	Total/NA	Solid	8021B	8831
880-6735-30	C-809	Total/NA	Solid	8021B	8831
880-6735-31	C-810	Total/NA	Solid	8021B	8831
880-6735-32	C-811	Total/NA	Solid	8021B	8831

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9112 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-33	C-812	Total/NA	Solid	8021B	8831
880-6735-34	C-813	Total/NA	Solid	8021B	8831
880-6735-35	C-814	Total/NA	Solid	8021B	8831
880-6735-36	C-815	Total/NA	Solid	8021B	8831
880-6735-37	C-816	Total/NA	Solid	8021B	8831
880-6735-38	C-817	Total/NA	Solid	8021B	8831
880-6735-39	C-818	Total/NA	Solid	8021B	8831
880-6735-40	C-819	Total/NA	Solid	8021B	8831
MB 880-8831/5-A	Method Blank	Total/NA	Solid	8021B	8831
MB 880-8852/5-A	Method Blank	Total/NA	Solid	8021B	8852
LCS 880-8831/1-A	Lab Control Sample	Total/NA	Solid	8021B	8831
LCSD 880-8831/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8831
880-6735-21 MS	C-800	Total/NA	Solid	8021B	8831
880-6735-21 MSD	C-800	Total/NA	Solid	8021B	8831

Analysis Batch: 9113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-41	C-820	Total/NA	Solid	8021B	8833
880-6735-42	C-821	Total/NA	Solid	8021B	8833
880-6735-43	C-822	Total/NA	Solid	8021B	8833
880-6735-44	C-823	Total/NA	Solid	8021B	8833
880-6735-45	C-824	Total/NA	Solid	8021B	8833
880-6735-46	C-825	Total/NA	Solid	8021B	8833
880-6735-47	C-826	Total/NA	Solid	8021B	8833
880-6735-48	C-827	Total/NA	Solid	8021B	8833
880-6735-49	C-828	Total/NA	Solid	8021B	8833
880-6735-50	C-829	Total/NA	Solid	8021B	8833
880-6735-51	C-830	Total/NA	Solid	8021B	8833
880-6735-52	C-831	Total/NA	Solid	8021B	8833
880-6735-53	C-832	Total/NA	Solid	8021B	8833
880-6735-54	C-833	Total/NA	Solid	8021B	8833
880-6735-55	C-834	Total/NA	Solid	8021B	8833
880-6735-56	C-835	Total/NA	Solid	8021B	8833
880-6735-57	C-836	Total/NA	Solid	8021B	8833
880-6735-58	C-837	Total/NA	Solid	8021B	8833
MB 880-8833/5-A	Method Blank	Total/NA	Solid	8021B	8833
MB 880-8854/5-A	Method Blank	Total/NA	Solid	8021B	8854
LCS 880-8833/1-A	Lab Control Sample	Total/NA	Solid	8021B	8833
LCSD 880-8833/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8833
880-6735-41 MS	C-820	Total/NA	Solid	8021B	8833
880-6735-41 MSD	C-820	Total/NA	Solid	8021B	8833

Analysis Batch: 9138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-41	C-820	Total/NA	Solid	Total BTEX	
880-6735-42	C-821	Total/NA	Solid	Total BTEX	
880-6735-43	C-822	Total/NA	Solid	Total BTEX	
880-6735-44	C-823	Total/NA	Solid	Total BTEX	
880-6735-45	C-824	Total/NA	Solid	Total BTEX	
880-6735-46	C-825	Total/NA	Solid	Total BTEX	
880-6735-47	C-826	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9138 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-48	C-827	Total/NA	Solid	Total BTEX	
880-6735-49	C-828	Total/NA	Solid	Total BTEX	
880-6735-50	C-829	Total/NA	Solid	Total BTEX	
880-6735-51	C-830	Total/NA	Solid	Total BTEX	
880-6735-52	C-831	Total/NA	Solid	Total BTEX	
880-6735-53	C-832	Total/NA	Solid	Total BTEX	
880-6735-54	C-833	Total/NA	Solid	Total BTEX	
880-6735-55	C-834	Total/NA	Solid	Total BTEX	
880-6735-56	C-835	Total/NA	Solid	Total BTEX	
880-6735-57	C-836	Total/NA	Solid	Total BTEX	
880-6735-58	C-837	Total/NA	Solid	Total BTEX	

Analysis Batch: 9139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-21	C-800	Total/NA	Solid	Total BTEX	
880-6735-22	C-801	Total/NA	Solid	Total BTEX	
880-6735-23	C-802	Total/NA	Solid	Total BTEX	
880-6735-24	C-803	Total/NA	Solid	Total BTEX	
880-6735-25	C-804	Total/NA	Solid	Total BTEX	
880-6735-26	C-805	Total/NA	Solid	Total BTEX	
880-6735-27	C-806	Total/NA	Solid	Total BTEX	
880-6735-28	C-807	Total/NA	Solid	Total BTEX	
880-6735-29	C-808	Total/NA	Solid	Total BTEX	
880-6735-30	C-809	Total/NA	Solid	Total BTEX	
880-6735-31	C-810	Total/NA	Solid	Total BTEX	
880-6735-32	C-811	Total/NA	Solid	Total BTEX	
880-6735-33	C-812	Total/NA	Solid	Total BTEX	
880-6735-34	C-813	Total/NA	Solid	Total BTEX	
880-6735-35	C-814	Total/NA	Solid	Total BTEX	
880-6735-36	C-815	Total/NA	Solid	Total BTEX	
880-6735-37	C-816	Total/NA	Solid	Total BTEX	
880-6735-38	C-817	Total/NA	Solid	Total BTEX	
880-6735-39	C-818	Total/NA	Solid	Total BTEX	
880-6735-40	C-819	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 8775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-47	C-826	Total/NA	Solid	8015B NM	8781
880-6735-48	C-827	Total/NA	Solid	8015B NM	8781
880-6735-49	C-828	Total/NA	Solid	8015B NM	8781
880-6735-50	C-829	Total/NA	Solid	8015B NM	8781
MB 880-8781/1-A	Method Blank	Total/NA	Solid	8015B NM	8781
LCS 880-8781/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8781
LCSD 880-8781/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8781
880-6736-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	8781
880-6736-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8781

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 8781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-47	C-826	Total/NA	Solid	8015NM Prep	
880-6735-48	C-827	Total/NA	Solid	8015NM Prep	
880-6735-49	C-828	Total/NA	Solid	8015NM Prep	
880-6735-50	C-829	Total/NA	Solid	8015NM Prep	
MB 880-8781/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8781/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8781/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6736-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6736-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-42	C-821	Total/NA	Solid	8015B NM	8877
880-6735-43	C-822	Total/NA	Solid	8015B NM	8877
880-6735-44	C-823	Total/NA	Solid	8015B NM	8877
880-6735-45	C-824	Total/NA	Solid	8015B NM	8877
880-6735-46	C-825	Total/NA	Solid	8015B NM	8877
MB 880-8877/1-A	Method Blank	Total/NA	Solid	8015B NM	8877
LCS 880-8877/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8877
LCSD 880-8877/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8877
880-6735-42 MS	C-821	Total/NA	Solid	8015B NM	8877
880-6735-42 MSD	C-821	Total/NA	Solid	8015B NM	8877

Prep Batch: 8877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-42	C-821	Total/NA	Solid	8015NM Prep	
880-6735-43	C-822	Total/NA	Solid	8015NM Prep	
880-6735-44	C-823	Total/NA	Solid	8015NM Prep	
880-6735-45	C-824	Total/NA	Solid	8015NM Prep	
880-6735-46	C-825	Total/NA	Solid	8015NM Prep	
MB 880-8877/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8877/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8877/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6735-42 MS	C-821	Total/NA	Solid	8015NM Prep	
880-6735-42 MSD	C-821	Total/NA	Solid	8015NM Prep	

Prep Batch: 8891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-21	C-800	Total/NA	Solid	8015NM Prep	
880-6735-22	C-801	Total/NA	Solid	8015NM Prep	
880-6735-23	C-802	Total/NA	Solid	8015NM Prep	
880-6735-24	C-803	Total/NA	Solid	8015NM Prep	
880-6735-25	C-804	Total/NA	Solid	8015NM Prep	
880-6735-26	C-805	Total/NA	Solid	8015NM Prep	
880-6735-27	C-806	Total/NA	Solid	8015NM Prep	
880-6735-28	C-807	Total/NA	Solid	8015NM Prep	
880-6735-29	C-808	Total/NA	Solid	8015NM Prep	
880-6735-30	C-809	Total/NA	Solid	8015NM Prep	
880-6735-31	C-810	Total/NA	Solid	8015NM Prep	
880-6735-32	C-811	Total/NA	Solid	8015NM Prep	
880-6735-33	C-812	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 8891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-34	C-813	Total/NA	Solid	8015NM Prep	
880-6735-35	C-814	Total/NA	Solid	8015NM Prep	
880-6735-36	C-815	Total/NA	Solid	8015NM Prep	
880-6735-37	C-816	Total/NA	Solid	8015NM Prep	
880-6735-38	C-817	Total/NA	Solid	8015NM Prep	
880-6735-39	C-818	Total/NA	Solid	8015NM Prep	
880-6735-40	C-819	Total/NA	Solid	8015NM Prep	
MB 880-8891/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8891/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8891/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6735-21 MS	C-800	Total/NA	Solid	8015NM Prep	
880-6735-21 MSD	C-800	Total/NA	Solid	8015NM Prep	

Prep Batch: 8894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-53	C-832	Total/NA	Solid	8015NM Prep	
880-6735-54	C-833	Total/NA	Solid	8015NM Prep	
880-6735-55	C-834	Total/NA	Solid	8015NM Prep	
880-6735-56	C-835	Total/NA	Solid	8015NM Prep	
880-6735-57	C-836	Total/NA	Solid	8015NM Prep	
880-6735-58	C-837	Total/NA	Solid	8015NM Prep	
MB 880-8894/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8894/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8894/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6727-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6727-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 8916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-1	C-780	Total/NA	Solid	8015NM Prep	
880-6735-2	C-781	Total/NA	Solid	8015NM Prep	
880-6735-3	C-782	Total/NA	Solid	8015NM Prep	
880-6735-4	C-783	Total/NA	Solid	8015NM Prep	
880-6735-5	C-784	Total/NA	Solid	8015NM Prep	
880-6735-6	C-785	Total/NA	Solid	8015NM Prep	
880-6735-7	C-786	Total/NA	Solid	8015NM Prep	
880-6735-8	C-787	Total/NA	Solid	8015NM Prep	
880-6735-9	C-788	Total/NA	Solid	8015NM Prep	
880-6735-10	C-789	Total/NA	Solid	8015NM Prep	
880-6735-11	C-790	Total/NA	Solid	8015NM Prep	
880-6735-12	C-791	Total/NA	Solid	8015NM Prep	
880-6735-13	C-792	Total/NA	Solid	8015NM Prep	
880-6735-14	C-793	Total/NA	Solid	8015NM Prep	
880-6735-15	C-794	Total/NA	Solid	8015NM Prep	
880-6735-16	C-795	Total/NA	Solid	8015NM Prep	
880-6735-17	C-796	Total/NA	Solid	8015NM Prep	
880-6735-18	C-797	Total/NA	Solid	8015NM Prep	
880-6735-19	C-798	Total/NA	Solid	8015NM Prep	
880-6735-20	C-799	Total/NA	Solid	8015NM Prep	
MB 880-8916/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8916/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 8916 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-8916/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6735-1 MS	C-780	Total/NA	Solid	8015NM Prep	
880-6735-1 MSD	C-780	Total/NA	Solid	8015NM Prep	

Prep Batch: 8917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-41	C-820	Total/NA	Solid	8015NM Prep	
880-6735-51	C-830	Total/NA	Solid	8015NM Prep	
880-6735-52	C-831	Total/NA	Solid	8015NM Prep	
MB 880-8917/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8917/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8917/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6735-41 MS	C-820	Total/NA	Solid	8015NM Prep	
880-6735-41 MSD	C-820	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-21	C-800	Total/NA	Solid	8015B NM	8891
880-6735-22	C-801	Total/NA	Solid	8015B NM	8891
880-6735-23	C-802	Total/NA	Solid	8015B NM	8891
880-6735-24	C-803	Total/NA	Solid	8015B NM	8891
880-6735-25	C-804	Total/NA	Solid	8015B NM	8891
880-6735-26	C-805	Total/NA	Solid	8015B NM	8891
880-6735-27	C-806	Total/NA	Solid	8015B NM	8891
880-6735-28	C-807	Total/NA	Solid	8015B NM	8891
880-6735-29	C-808	Total/NA	Solid	8015B NM	8891
880-6735-30	C-809	Total/NA	Solid	8015B NM	8891
880-6735-31	C-810	Total/NA	Solid	8015B NM	8891
880-6735-32	C-811	Total/NA	Solid	8015B NM	8891
880-6735-33	C-812	Total/NA	Solid	8015B NM	8891
880-6735-34	C-813	Total/NA	Solid	8015B NM	8891
880-6735-35	C-814	Total/NA	Solid	8015B NM	8891
880-6735-36	C-815	Total/NA	Solid	8015B NM	8891
880-6735-37	C-816	Total/NA	Solid	8015B NM	8891
880-6735-38	C-817	Total/NA	Solid	8015B NM	8891
880-6735-39	C-818	Total/NA	Solid	8015B NM	8891
880-6735-40	C-819	Total/NA	Solid	8015B NM	8891
MB 880-8891/1-A	Method Blank	Total/NA	Solid	8015B NM	8891
LCS 880-8891/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8891
LCSD 880-8891/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8891
880-6735-21 MS	C-800	Total/NA	Solid	8015B NM	8891
880-6735-21 MSD	C-800	Total/NA	Solid	8015B NM	8891

Analysis Batch: 8951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-53	C-832	Total/NA	Solid	8015B NM	8894
880-6735-54	C-833	Total/NA	Solid	8015B NM	8894
880-6735-55	C-834	Total/NA	Solid	8015B NM	8894
880-6735-56	C-835	Total/NA	Solid	8015B NM	8894
880-6735-57	C-836	Total/NA	Solid	8015B NM	8894
880-6735-58	C-837	Total/NA	Solid	8015B NM	8894

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8951 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8894/1-A	Method Blank	Total/NA	Solid	8015B NM	8894
LCS 880-8894/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8894
LCSD 880-8894/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8894
880-6727-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	8894
880-6727-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8894

Analysis Batch: 8953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-1	C-780	Total/NA	Solid	8015B NM	8916
880-6735-2	C-781	Total/NA	Solid	8015B NM	8916
880-6735-3	C-782	Total/NA	Solid	8015B NM	8916
880-6735-4	C-783	Total/NA	Solid	8015B NM	8916
880-6735-5	C-784	Total/NA	Solid	8015B NM	8916
880-6735-6	C-785	Total/NA	Solid	8015B NM	8916
880-6735-7	C-786	Total/NA	Solid	8015B NM	8916
880-6735-8	C-787	Total/NA	Solid	8015B NM	8916
880-6735-9	C-788	Total/NA	Solid	8015B NM	8916
880-6735-10	C-789	Total/NA	Solid	8015B NM	8916
880-6735-11	C-790	Total/NA	Solid	8015B NM	8916
880-6735-12	C-791	Total/NA	Solid	8015B NM	8916
880-6735-13	C-792	Total/NA	Solid	8015B NM	8916
880-6735-14	C-793	Total/NA	Solid	8015B NM	8916
880-6735-15	C-794	Total/NA	Solid	8015B NM	8916
880-6735-16	C-795	Total/NA	Solid	8015B NM	8916
880-6735-17	C-796	Total/NA	Solid	8015B NM	8916
880-6735-18	C-797	Total/NA	Solid	8015B NM	8916
880-6735-19	C-798	Total/NA	Solid	8015B NM	8916
880-6735-20	C-799	Total/NA	Solid	8015B NM	8916
MB 880-8916/1-A	Method Blank	Total/NA	Solid	8015B NM	8916
LCS 880-8916/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8916
LCSD 880-8916/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8916
880-6735-1 MS	C-780	Total/NA	Solid	8015B NM	8916
880-6735-1 MSD	C-780	Total/NA	Solid	8015B NM	8916

Analysis Batch: 8955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-41	C-820	Total/NA	Solid	8015B NM	8917
880-6735-51	C-830	Total/NA	Solid	8015B NM	8917
880-6735-52	C-831	Total/NA	Solid	8015B NM	8917
MB 880-8917/1-A	Method Blank	Total/NA	Solid	8015B NM	8917
LCS 880-8917/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8917
LCSD 880-8917/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8917
880-6735-41 MS	C-820	Total/NA	Solid	8015B NM	8917
880-6735-41 MSD	C-820	Total/NA	Solid	8015B NM	8917

Analysis Batch: 8973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-1	C-780	Total/NA	Solid	8015 NM	
880-6735-2	C-781	Total/NA	Solid	8015 NM	
880-6735-3	C-782	Total/NA	Solid	8015 NM	
880-6735-4	C-783	Total/NA	Solid	8015 NM	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8973 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-5	C-784	Total/NA	Solid	8015 NM	
880-6735-6	C-785	Total/NA	Solid	8015 NM	
880-6735-7	C-786	Total/NA	Solid	8015 NM	
880-6735-8	C-787	Total/NA	Solid	8015 NM	
880-6735-9	C-788	Total/NA	Solid	8015 NM	
880-6735-10	C-789	Total/NA	Solid	8015 NM	
880-6735-11	C-790	Total/NA	Solid	8015 NM	
880-6735-12	C-791	Total/NA	Solid	8015 NM	
880-6735-13	C-792	Total/NA	Solid	8015 NM	
880-6735-14	C-793	Total/NA	Solid	8015 NM	
880-6735-15	C-794	Total/NA	Solid	8015 NM	
880-6735-16	C-795	Total/NA	Solid	8015 NM	
880-6735-17	C-796	Total/NA	Solid	8015 NM	
880-6735-18	C-797	Total/NA	Solid	8015 NM	
880-6735-19	C-798	Total/NA	Solid	8015 NM	
880-6735-20	C-799	Total/NA	Solid	8015 NM	
880-6735-21	C-800	Total/NA	Solid	8015 NM	
880-6735-22	C-801	Total/NA	Solid	8015 NM	
880-6735-23	C-802	Total/NA	Solid	8015 NM	
880-6735-24	C-803	Total/NA	Solid	8015 NM	
880-6735-25	C-804	Total/NA	Solid	8015 NM	
880-6735-26	C-805	Total/NA	Solid	8015 NM	
880-6735-27	C-806	Total/NA	Solid	8015 NM	
880-6735-28	C-807	Total/NA	Solid	8015 NM	
880-6735-29	C-808	Total/NA	Solid	8015 NM	
880-6735-30	C-809	Total/NA	Solid	8015 NM	
880-6735-31	C-810	Total/NA	Solid	8015 NM	
880-6735-32	C-811	Total/NA	Solid	8015 NM	
880-6735-33	C-812	Total/NA	Solid	8015 NM	
880-6735-34	C-813	Total/NA	Solid	8015 NM	
880-6735-35	C-814	Total/NA	Solid	8015 NM	
880-6735-36	C-815	Total/NA	Solid	8015 NM	
880-6735-37	C-816	Total/NA	Solid	8015 NM	
880-6735-38	C-817	Total/NA	Solid	8015 NM	
880-6735-39	C-818	Total/NA	Solid	8015 NM	
880-6735-40	C-819	Total/NA	Solid	8015 NM	
880-6735-41	C-820	Total/NA	Solid	8015 NM	
880-6735-42	C-821	Total/NA	Solid	8015 NM	
880-6735-43	C-822	Total/NA	Solid	8015 NM	
880-6735-44	C-823	Total/NA	Solid	8015 NM	
880-6735-45	C-824	Total/NA	Solid	8015 NM	
880-6735-46	C-825	Total/NA	Solid	8015 NM	
880-6735-47	C-826	Total/NA	Solid	8015 NM	
880-6735-48	C-827	Total/NA	Solid	8015 NM	
880-6735-49	C-828	Total/NA	Solid	8015 NM	
880-6735-50	C-829	Total/NA	Solid	8015 NM	
880-6735-51	C-830	Total/NA	Solid	8015 NM	
880-6735-52	C-831	Total/NA	Solid	8015 NM	
880-6735-53	C-832	Total/NA	Solid	8015 NM	
880-6735-54	C-833	Total/NA	Solid	8015 NM	
880-6735-55	C-834	Total/NA	Solid	8015 NM	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8973 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-56	C-835	Total/NA	Solid	8015 NM	
880-6735-57	C-836	Total/NA	Solid	8015 NM	
880-6735-58	C-837	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 8807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-55	C-834	Soluble	Solid	DI Leach	
880-6735-56	C-835	Soluble	Solid	DI Leach	
880-6735-57	C-836	Soluble	Solid	DI Leach	
880-6735-58	C-837	Soluble	Solid	DI Leach	
MB 880-8807/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8807/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8807/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6713-A-19-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-6713-A-19-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 8896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-1	C-780	Soluble	Solid	DI Leach	
880-6735-2	C-781	Soluble	Solid	DI Leach	
880-6735-3	C-782	Soluble	Solid	DI Leach	
880-6735-4	C-783	Soluble	Solid	DI Leach	
880-6735-5	C-784	Soluble	Solid	DI Leach	
880-6735-6	C-785	Soluble	Solid	DI Leach	
880-6735-7	C-786	Soluble	Solid	DI Leach	
880-6735-8	C-787	Soluble	Solid	DI Leach	
880-6735-9	C-788	Soluble	Solid	DI Leach	
880-6735-10	C-789	Soluble	Solid	DI Leach	
880-6735-11	C-790	Soluble	Solid	DI Leach	
880-6735-12	C-791	Soluble	Solid	DI Leach	
880-6735-13	C-792	Soluble	Solid	DI Leach	
880-6735-14	C-793	Soluble	Solid	DI Leach	
880-6735-15	C-794	Soluble	Solid	DI Leach	
880-6735-16	C-795	Soluble	Solid	DI Leach	
880-6735-17	C-796	Soluble	Solid	DI Leach	
MB 880-8896/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8896/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8896/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6735-8 MS	C-787	Soluble	Solid	DI Leach	
880-6735-8 MSD	C-787	Soluble	Solid	DI Leach	

Leach Batch: 8897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-18	C-797	Soluble	Solid	DI Leach	
880-6735-19	C-798	Soluble	Solid	DI Leach	
880-6735-20	C-799	Soluble	Solid	DI Leach	
880-6735-21	C-800	Soluble	Solid	DI Leach	
880-6735-22	C-801	Soluble	Solid	DI Leach	
880-6735-23	C-802	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-24	C-803	Soluble	Solid	DI Leach	
880-6735-25	C-804	Soluble	Solid	DI Leach	
880-6735-26	C-805	Soluble	Solid	DI Leach	
880-6735-27	C-806	Soluble	Solid	DI Leach	
880-6735-28	C-807	Soluble	Solid	DI Leach	
880-6735-29	C-808	Soluble	Solid	DI Leach	
880-6735-30	C-809	Soluble	Solid	DI Leach	
880-6735-31	C-810	Soluble	Solid	DI Leach	
880-6735-32	C-811	Soluble	Solid	DI Leach	
880-6735-33	C-812	Soluble	Solid	DI Leach	
880-6735-34	C-813	Soluble	Solid	DI Leach	
880-6735-35	C-814	Soluble	Solid	DI Leach	
880-6735-36	C-815	Soluble	Solid	DI Leach	
880-6735-37	C-816	Soluble	Solid	DI Leach	
MB 880-8897/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8897/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8897/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6735-18 MS	C-797	Soluble	Solid	DI Leach	
880-6735-18 MSD	C-797	Soluble	Solid	DI Leach	
880-6735-28 MS	C-807	Soluble	Solid	DI Leach	
880-6735-28 MSD	C-807	Soluble	Solid	DI Leach	

Leach Batch: 8898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-38	C-817	Soluble	Solid	DI Leach	
880-6735-39	C-818	Soluble	Solid	DI Leach	
880-6735-40	C-819	Soluble	Solid	DI Leach	
880-6735-41	C-820	Soluble	Solid	DI Leach	
880-6735-42	C-821	Soluble	Solid	DI Leach	
880-6735-43	C-822	Soluble	Solid	DI Leach	
880-6735-44	C-823	Soluble	Solid	DI Leach	
880-6735-45	C-824	Soluble	Solid	DI Leach	
880-6735-46	C-825	Soluble	Solid	DI Leach	
880-6735-47	C-826	Soluble	Solid	DI Leach	
880-6735-48	C-827	Soluble	Solid	DI Leach	
880-6735-49	C-828	Soluble	Solid	DI Leach	
880-6735-50	C-829	Soluble	Solid	DI Leach	
880-6735-51	C-830	Soluble	Solid	DI Leach	
880-6735-52	C-831	Soluble	Solid	DI Leach	
880-6735-53	C-832	Soluble	Solid	DI Leach	
880-6735-54	C-833	Soluble	Solid	DI Leach	
MB 880-8898/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8898/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8898/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6735-38 MS	C-817	Soluble	Solid	DI Leach	
880-6735-38 MSD	C-817	Soluble	Solid	DI Leach	
880-6735-48 MS	C-827	Soluble	Solid	DI Leach	
880-6735-48 MSD	C-827	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 8983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-55	C-834	Soluble	Solid	300.0	8807
880-6735-56	C-835	Soluble	Solid	300.0	8807
880-6735-57	C-836	Soluble	Solid	300.0	8807
880-6735-58	C-837	Soluble	Solid	300.0	8807
MB 880-8807/1-A	Method Blank	Soluble	Solid	300.0	8807
LCS 880-8807/2-A	Lab Control Sample	Soluble	Solid	300.0	8807
LCSD 880-8807/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8807
880-6713-A-19-D MS	Matrix Spike	Soluble	Solid	300.0	8807
880-6713-A-19-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8807

Analysis Batch: 8984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-1	C-780	Soluble	Solid	300.0	8896
880-6735-2	C-781	Soluble	Solid	300.0	8896
880-6735-3	C-782	Soluble	Solid	300.0	8896
880-6735-4	C-783	Soluble	Solid	300.0	8896
880-6735-5	C-784	Soluble	Solid	300.0	8896
880-6735-6	C-785	Soluble	Solid	300.0	8896
880-6735-7	C-786	Soluble	Solid	300.0	8896
880-6735-8	C-787	Soluble	Solid	300.0	8896
880-6735-9	C-788	Soluble	Solid	300.0	8896
880-6735-10	C-789	Soluble	Solid	300.0	8896
880-6735-11	C-790	Soluble	Solid	300.0	8896
880-6735-12	C-791	Soluble	Solid	300.0	8896
880-6735-13	C-792	Soluble	Solid	300.0	8896
880-6735-14	C-793	Soluble	Solid	300.0	8896
880-6735-15	C-794	Soluble	Solid	300.0	8896
880-6735-16	C-795	Soluble	Solid	300.0	8896
880-6735-17	C-796	Soluble	Solid	300.0	8896
MB 880-8896/1-A	Method Blank	Soluble	Solid	300.0	8896
LCS 880-8896/2-A	Lab Control Sample	Soluble	Solid	300.0	8896
LCSD 880-8896/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8896
880-6735-8 MS	C-787	Soluble	Solid	300.0	8896
880-6735-8 MSD	C-787	Soluble	Solid	300.0	8896

Analysis Batch: 9054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-18	C-797	Soluble	Solid	300.0	8897
880-6735-19	C-798	Soluble	Solid	300.0	8897
880-6735-20	C-799	Soluble	Solid	300.0	8897
880-6735-21	C-800	Soluble	Solid	300.0	8897
880-6735-22	C-801	Soluble	Solid	300.0	8897
880-6735-23	C-802	Soluble	Solid	300.0	8897
880-6735-24	C-803	Soluble	Solid	300.0	8897
880-6735-25	C-804	Soluble	Solid	300.0	8897
880-6735-26	C-805	Soluble	Solid	300.0	8897
880-6735-27	C-806	Soluble	Solid	300.0	8897
880-6735-28	C-807	Soluble	Solid	300.0	8897
880-6735-29	C-808	Soluble	Solid	300.0	8897
880-6735-30	C-809	Soluble	Solid	300.0	8897
880-6735-31	C-810	Soluble	Solid	300.0	8897

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 9054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-32	C-811	Soluble	Solid	300.0	8897
880-6735-33	C-812	Soluble	Solid	300.0	8897
880-6735-34	C-813	Soluble	Solid	300.0	8897
880-6735-35	C-814	Soluble	Solid	300.0	8897
880-6735-36	C-815	Soluble	Solid	300.0	8897
880-6735-37	C-816	Soluble	Solid	300.0	8897
MB 880-8897/1-A	Method Blank	Soluble	Solid	300.0	8897
LCS 880-8897/2-A	Lab Control Sample	Soluble	Solid	300.0	8897
LCSD 880-8897/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8897
880-6735-18 MS	C-797	Soluble	Solid	300.0	8897
880-6735-18 MSD	C-797	Soluble	Solid	300.0	8897
880-6735-28 MS	C-807	Soluble	Solid	300.0	8897
880-6735-28 MSD	C-807	Soluble	Solid	300.0	8897

Analysis Batch: 9057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6735-38	C-817	Soluble	Solid	300.0	8898
880-6735-39	C-818	Soluble	Solid	300.0	8898
880-6735-40	C-819	Soluble	Solid	300.0	8898
880-6735-41	C-820	Soluble	Solid	300.0	8898
880-6735-42	C-821	Soluble	Solid	300.0	8898
880-6735-43	C-822	Soluble	Solid	300.0	8898
880-6735-44	C-823	Soluble	Solid	300.0	8898
880-6735-45	C-824	Soluble	Solid	300.0	8898
880-6735-46	C-825	Soluble	Solid	300.0	8898
880-6735-47	C-826	Soluble	Solid	300.0	8898
880-6735-48	C-827	Soluble	Solid	300.0	8898
880-6735-49	C-828	Soluble	Solid	300.0	8898
880-6735-50	C-829	Soluble	Solid	300.0	8898
880-6735-51	C-830	Soluble	Solid	300.0	8898
880-6735-52	C-831	Soluble	Solid	300.0	8898
880-6735-53	C-832	Soluble	Solid	300.0	8898
880-6735-54	C-833	Soluble	Solid	300.0	8898
MB 880-8898/1-A	Method Blank	Soluble	Solid	300.0	8898
LCS 880-8898/2-A	Lab Control Sample	Soluble	Solid	300.0	8898
LCSD 880-8898/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8898
880-6735-38 MS	C-817	Soluble	Solid	300.0	8898
880-6735-38 MSD	C-817	Soluble	Solid	300.0	8898
880-6735-48 MS	C-827	Soluble	Solid	300.0	8898
880-6735-48 MSD	C-827	Soluble	Solid	300.0	8898

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-780

Lab Sample ID: 880-6735-1

Date Collected: 10/01/21 09:00

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 01:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 11:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 13:27	CH	XEN MID

Client Sample ID: C-781

Lab Sample ID: 880-6735-2

Date Collected: 10/01/21 09:01

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 01:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 12:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 13:34	CH	XEN MID

Client Sample ID: C-782

Lab Sample ID: 880-6735-3

Date Collected: 10/01/21 09:02

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 02:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 13:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 13:56	CH	XEN MID

Client Sample ID: C-783

Lab Sample ID: 880-6735-4

Date Collected: 10/01/21 09:03

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 02:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-783**Lab Sample ID: 880-6735-4****Date Collected: 10/01/21 09:03****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 13:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 14:03	CH	XEN MID

Client Sample ID: C-784**Lab Sample ID: 880-6735-5****Date Collected: 10/01/21 09:04****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 02:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 13:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 14:10	CH	XEN MID

Client Sample ID: C-785**Lab Sample ID: 880-6735-6****Date Collected: 10/01/21 09:05****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 03:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 14:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 14:17	CH	XEN MID

Client Sample ID: C-786**Lab Sample ID: 880-6735-7****Date Collected: 10/01/21 09:06****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 03:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 14:39	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-786

Lab Sample ID: 880-6735-7

Date Collected: 10/01/21 09:06

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 14:25	CH	XEN MID

Client Sample ID: C-787

Lab Sample ID: 880-6735-8

Date Collected: 10/01/21 09:07

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 04:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 15:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 14:32	CH	XEN MID

Client Sample ID: C-788

Lab Sample ID: 880-6735-9

Date Collected: 10/01/21 09:08

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 04:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 15:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 15:15	CH	XEN MID

Client Sample ID: C-789

Lab Sample ID: 880-6735-10

Date Collected: 10/01/21 09:09

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 05:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 15:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 15:22	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-790

Lab Sample ID: 880-6735-11

Date Collected: 10/01/21 09:10

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 06:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 16:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 15:43	CH	XEN MID

Client Sample ID: C-791

Lab Sample ID: 880-6735-12

Date Collected: 10/01/21 09:11

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 07:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 16:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 15:51	CH	XEN MID

Client Sample ID: C-792

Lab Sample ID: 880-6735-13

Date Collected: 10/01/21 09:20

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 07:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 17:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 15:58	CH	XEN MID

Client Sample ID: C-793

Lab Sample ID: 880-6735-14

Date Collected: 10/01/21 09:21

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 08:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-793

Lab Sample ID: 880-6735-14

Date Collected: 10/01/21 09:21

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 17:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 16:05	CH	XEN MID

Client Sample ID: C-794

Lab Sample ID: 880-6735-15

Date Collected: 10/01/21 09:22

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 08:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 17:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 16:12	CH	XEN MID

Client Sample ID: C-795

Lab Sample ID: 880-6735-16

Date Collected: 10/01/21 09:23

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 08:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 18:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 16:19	CH	XEN MID

Client Sample ID: C-796

Lab Sample ID: 880-6735-17

Date Collected: 10/01/21 09:24

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 09:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 18:41	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-796**Lab Sample ID: 880-6735-17****Date Collected: 10/01/21 09:24****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	8896	10/05/21 10:47	CH	XEN MID
Soluble	Analysis	300.0		1			8984	10/07/21 16:26	CH	XEN MID

Client Sample ID: C-797**Lab Sample ID: 880-6735-18****Date Collected: 10/01/21 09:25****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 09:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 19:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 17:24	CH	XEN MID

Client Sample ID: C-798**Lab Sample ID: 880-6735-19****Date Collected: 10/01/21 09:26****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 10:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 19:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 17:45	CH	XEN MID

Client Sample ID: C-799**Lab Sample ID: 880-6735-20****Date Collected: 10/01/21 09:27****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8808	10/04/21 13:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8965	10/07/21 10:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9061	10/07/21 12:10	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8916	10/05/21 11:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8953	10/06/21 19:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 17:52	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-800**Lab Sample ID: 880-6735-21****Date Collected: 10/01/21 09:28****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 00:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 11:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 18:00	CH	XEN MID

Client Sample ID: C-801**Lab Sample ID: 880-6735-22****Date Collected: 10/01/21 09:29****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 00:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 12:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 18:07	CH	XEN MID

Client Sample ID: C-802**Lab Sample ID: 880-6735-23****Date Collected: 10/01/21 08:44****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 01:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 12:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 18:28	CH	XEN MID

Client Sample ID: C-803**Lab Sample ID: 880-6735-24****Date Collected: 10/01/21 08:45****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 01:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-803**Lab Sample ID: 880-6735-24****Date Collected: 10/01/21 08:45****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 13:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 18:35	CH	XEN MID

Client Sample ID: C-804**Lab Sample ID: 880-6735-25****Date Collected: 10/01/21 08:46****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 01:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 13:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 18:43	CH	XEN MID

Client Sample ID: C-805**Lab Sample ID: 880-6735-26****Date Collected: 10/01/21 08:47****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 02:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 13:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 18:50	CH	XEN MID

Client Sample ID: C-806**Lab Sample ID: 880-6735-27****Date Collected: 10/01/21 08:48****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 02:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 14:16	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-806**Lab Sample ID: 880-6735-27****Date Collected: 10/01/21 08:48****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 18:57	CH	XEN MID

Client Sample ID: C-807**Lab Sample ID: 880-6735-28****Date Collected: 10/01/21 08:49****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 03:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 14:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 19:04	CH	XEN MID

Client Sample ID: C-808**Lab Sample ID: 880-6735-29****Date Collected: 10/01/21 08:50****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 03:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 14:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 19:26	CH	XEN MID

Client Sample ID: C-809**Lab Sample ID: 880-6735-30****Date Collected: 10/01/21 09:15****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 03:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 15:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 19:33	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-810**Lab Sample ID: 880-6735-31****Date Collected: 10/01/21 09:20****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 05:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 16:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 19:54	CH	XEN MID

Client Sample ID: C-811**Lab Sample ID: 880-6735-32****Date Collected: 10/01/21 09:21****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 05:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 16:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 20:01	CH	XEN MID

Client Sample ID: C-812**Lab Sample ID: 880-6735-33****Date Collected: 10/01/21 09:22****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 05:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 16:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 20:09	CH	XEN MID

Client Sample ID: C-813**Lab Sample ID: 880-6735-34****Date Collected: 10/01/21 09:23****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 06:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-813

Lab Sample ID: 880-6735-34

Date Collected: 10/01/21 09:23

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 17:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 20:16	CH	XEN MID

Client Sample ID: C-814

Lab Sample ID: 880-6735-35

Date Collected: 10/01/21 09:24

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 06:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 17:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 20:23	CH	XEN MID

Client Sample ID: C-815

Lab Sample ID: 880-6735-36

Date Collected: 10/01/21 09:25

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 06:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 17:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 20:30	CH	XEN MID

Client Sample ID: C-816

Lab Sample ID: 880-6735-37

Date Collected: 10/01/21 09:26

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 07:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 18:14	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-816

Lab Sample ID: 880-6735-37

Date Collected: 10/01/21 09:26

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	8897	10/05/21 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			9054	10/07/21 20:37	CH	XEN MID

Client Sample ID: C-817

Lab Sample ID: 880-6735-38

Date Collected: 10/01/21 09:27

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 07:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 21:46	CH	XEN MID

Client Sample ID: C-818

Lab Sample ID: 880-6735-39

Date Collected: 10/01/21 09:28

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 07:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 22:03	CH	XEN MID

Client Sample ID: C-819

Lab Sample ID: 880-6735-40

Date Collected: 10/01/21 09:29

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8831	10/04/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9112	10/11/21 08:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9139	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8891	10/05/21 10:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8949	10/06/21 19:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 22:08	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-820

Lab Sample ID: 880-6735-41

Date Collected: 10/01/21 09:30

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/10/21 23:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8917	10/05/21 11:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8955	10/06/21 11:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 22:14	CH	XEN MID

Client Sample ID: C-821

Lab Sample ID: 880-6735-42

Date Collected: 10/01/21 09:31

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/10/21 23:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 11:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 22:20	CH	XEN MID

Client Sample ID: C-822

Lab Sample ID: 880-6735-43

Date Collected: 10/01/21 09:32

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/10/21 23:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 12:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 22:37	CH	XEN MID

Client Sample ID: C-823

Lab Sample ID: 880-6735-44

Date Collected: 10/01/21 09:33

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 00:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-823**Lab Sample ID: 880-6735-44****Date Collected: 10/01/21 09:33****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 12:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 22:42	CH	XEN MID

Client Sample ID: C-824**Lab Sample ID: 880-6735-45****Date Collected: 10/01/21 09:34****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 00:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 13:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 22:48	CH	XEN MID

Client Sample ID: C-825**Lab Sample ID: 880-6735-46****Date Collected: 10/01/21 09:35****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 00:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 13:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 22:53	CH	XEN MID

Client Sample ID: C-826**Lab Sample ID: 880-6735-47****Date Collected: 10/01/21 09:36****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 01:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8781	10/04/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8775	10/04/21 17:34	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-826**Lab Sample ID: 880-6735-47****Date Collected: 10/01/21 09:36****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 22:59	CH	XEN MID

Client Sample ID: C-827**Lab Sample ID: 880-6735-48****Date Collected: 10/01/21 09:37****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 01:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8781	10/04/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8775	10/04/21 17:56	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 23:05	CH	XEN MID

Client Sample ID: C-828**Lab Sample ID: 880-6735-49****Date Collected: 10/01/21 09:38****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 02:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8781	10/04/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8775	10/04/21 18:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 23:21	CH	XEN MID

Client Sample ID: C-829**Lab Sample ID: 880-6735-50****Date Collected: 10/01/21 09:39****Matrix: Solid****Date Received: 10/01/21 15:02**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 02:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8781	10/04/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8775	10/04/21 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 23:27	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-830

Lab Sample ID: 880-6735-51

Date Collected: 10/01/21 09:40

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 03:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8917	10/05/21 11:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8955	10/06/21 12:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 23:44	CH	XEN MID

Client Sample ID: C-831

Lab Sample ID: 880-6735-52

Date Collected: 10/01/21 09:41

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 04:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8917	10/05/21 11:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8955	10/06/21 13:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 23:49	CH	XEN MID

Client Sample ID: C-832

Lab Sample ID: 880-6735-53

Date Collected: 10/01/21 09:42

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 04:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8894	10/05/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8951	10/06/21 16:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/07/21 23:55	CH	XEN MID

Client Sample ID: C-833

Lab Sample ID: 880-6735-54

Date Collected: 10/01/21 09:43

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 04:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-833

Lab Sample ID: 880-6735-54

Date Collected: 10/01/21 09:43

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8894	10/05/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8951	10/06/21 16:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8898	10/05/21 10:52	CH	XEN MID
Soluble	Analysis	300.0		1			9057	10/08/21 00:01	CH	XEN MID

Client Sample ID: C-834

Lab Sample ID: 880-6735-55

Date Collected: 10/01/21 09:44

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 05:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8894	10/05/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8951	10/06/21 16:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8807	10/04/21 13:43	CA	XEN MID
Soluble	Analysis	300.0		1			8983	10/07/21 17:05	CH	XEN MID

Client Sample ID: C-835

Lab Sample ID: 880-6735-56

Date Collected: 10/01/21 09:45

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 05:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 10:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8894	10/05/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8951	10/06/21 17:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8807	10/04/21 13:43	CA	XEN MID
Soluble	Analysis	300.0		1			8983	10/07/21 17:11	CH	XEN MID

Client Sample ID: C-836

Lab Sample ID: 880-6735-57

Date Collected: 10/01/21 09:46

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 05:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 11:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8894	10/05/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8951	10/06/21 17:32	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Client Sample ID: C-836

Lab Sample ID: 880-6735-57

Date Collected: 10/01/21 09:46

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	8807	10/04/21 13:43	CA	XEN MID
Soluble	Analysis	300.0		1			8983	10/07/21 17:16	CH	XEN MID

Client Sample ID: C-837

Lab Sample ID: 880-6735-58

Date Collected: 10/01/21 09:47

Matrix: Solid

Date Received: 10/01/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 06:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 11:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8894	10/05/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8951	10/06/21 17:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8807	10/04/21 13:43	CA	XEN MID
Soluble	Analysis	300.0		1			8983	10/07/21 17:22	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6735-1	C-780	Solid	10/01/21 09:00	10/01/21 15:02
880-6735-2	C-781	Solid	10/01/21 09:01	10/01/21 15:02
880-6735-3	C-782	Solid	10/01/21 09:02	10/01/21 15:02
880-6735-4	C-783	Solid	10/01/21 09:03	10/01/21 15:02
880-6735-5	C-784	Solid	10/01/21 09:04	10/01/21 15:02
880-6735-6	C-785	Solid	10/01/21 09:05	10/01/21 15:02
880-6735-7	C-786	Solid	10/01/21 09:06	10/01/21 15:02
880-6735-8	C-787	Solid	10/01/21 09:07	10/01/21 15:02
880-6735-9	C-788	Solid	10/01/21 09:08	10/01/21 15:02
880-6735-10	C-789	Solid	10/01/21 09:09	10/01/21 15:02
880-6735-11	C-790	Solid	10/01/21 09:10	10/01/21 15:02
880-6735-12	C-791	Solid	10/01/21 09:11	10/01/21 15:02
880-6735-13	C-792	Solid	10/01/21 09:20	10/01/21 15:02
880-6735-14	C-793	Solid	10/01/21 09:21	10/01/21 15:02
880-6735-15	C-794	Solid	10/01/21 09:22	10/01/21 15:02
880-6735-16	C-795	Solid	10/01/21 09:23	10/01/21 15:02
880-6735-17	C-796	Solid	10/01/21 09:24	10/01/21 15:02
880-6735-18	C-797	Solid	10/01/21 09:25	10/01/21 15:02
880-6735-19	C-798	Solid	10/01/21 09:26	10/01/21 15:02
880-6735-20	C-799	Solid	10/01/21 09:27	10/01/21 15:02
880-6735-21	C-800	Solid	10/01/21 09:28	10/01/21 15:02
880-6735-22	C-801	Solid	10/01/21 09:29	10/01/21 15:02
880-6735-23	C-802	Solid	10/01/21 08:44	10/01/21 15:02
880-6735-24	C-803	Solid	10/01/21 08:45	10/01/21 15:02
880-6735-25	C-804	Solid	10/01/21 08:46	10/01/21 15:02
880-6735-26	C-805	Solid	10/01/21 08:47	10/01/21 15:02
880-6735-27	C-806	Solid	10/01/21 08:48	10/01/21 15:02
880-6735-28	C-807	Solid	10/01/21 08:49	10/01/21 15:02
880-6735-29	C-808	Solid	10/01/21 08:50	10/01/21 15:02
880-6735-30	C-809	Solid	10/01/21 09:15	10/01/21 15:02
880-6735-31	C-810	Solid	10/01/21 09:20	10/01/21 15:02
880-6735-32	C-811	Solid	10/01/21 09:21	10/01/21 15:02
880-6735-33	C-812	Solid	10/01/21 09:22	10/01/21 15:02
880-6735-34	C-813	Solid	10/01/21 09:23	10/01/21 15:02
880-6735-35	C-814	Solid	10/01/21 09:24	10/01/21 15:02
880-6735-36	C-815	Solid	10/01/21 09:25	10/01/21 15:02
880-6735-37	C-816	Solid	10/01/21 09:26	10/01/21 15:02
880-6735-38	C-817	Solid	10/01/21 09:27	10/01/21 15:02
880-6735-39	C-818	Solid	10/01/21 09:28	10/01/21 15:02
880-6735-40	C-819	Solid	10/01/21 09:29	10/01/21 15:02
880-6735-41	C-820	Solid	10/01/21 09:30	10/01/21 15:02
880-6735-42	C-821	Solid	10/01/21 09:31	10/01/21 15:02
880-6735-43	C-822	Solid	10/01/21 09:32	10/01/21 15:02
880-6735-44	C-823	Solid	10/01/21 09:33	10/01/21 15:02
880-6735-45	C-824	Solid	10/01/21 09:34	10/01/21 15:02
880-6735-46	C-825	Solid	10/01/21 09:35	10/01/21 15:02
880-6735-47	C-826	Solid	10/01/21 09:36	10/01/21 15:02
880-6735-48	C-827	Solid	10/01/21 09:37	10/01/21 15:02
880-6735-49	C-828	Solid	10/01/21 09:38	10/01/21 15:02
880-6735-50	C-829	Solid	10/01/21 09:39	10/01/21 15:02
880-6735-51	C-830	Solid	10/01/21 09:40	10/01/21 15:02
880-6735-52	C-831	Solid	10/01/21 09:41	10/01/21 15:02
880-6735-53	C-832	Solid	10/01/21 09:42	10/01/21 15:02
880-6735-54	C-833	Solid	10/01/21 09:43	10/01/21 15:02

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-6735-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6735-55	C-834	Solid	10/01/21 09:44	10/01/21 15:02
880-6735-56	C-835	Solid	10/01/21 09:45	10/01/21 15:02
880-6735-57	C-836	Solid	10/01/21 09:46	10/01/21 15:02
880-6735-58	C-837	Solid	10/01/21 09:47	10/01/21 15:02

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10/11/2021

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No. 2108

Loc: 880

6735

CHAIN-OF-CUSTODY

Marson & Associates, Inc.

Environmental Consultants

507 N N

Mchl

432-687 0901

Data Reported to

202

DATE 10-1-21

PO#

LAB WORK ORDER#

PROJECT LOCATION OR NAME Rdms 457

LAI PROJECT # 21-0105-02

COLLECTOR, TPMB+DSG

PAGE 2 OF 4

TRRP report? ☐ Yes ☒ No		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		PRESERVATION HCl HNO ₃ H ₂ SO ₄ ☐ NaOH ☐ ICE UNPRESERVED		ANALYSES BTEX ☐ MTBE ☐ TPH 1005 ☐ TPH 1006 ☐ TRPH 418 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ OIL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ TCLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ DW 200 B ☐ TCLP ☐ LEAD - TOTAL ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ PECHLORATE ☐ EXPLOSIVES ☐ ANIONS ☐ ALKALINITY ☐																	
TIME ZONE Time zone/State MS7/ N/M		Field Sample ID		Lab #		Date		Time		Matrix		# of Containers		FIELD NOTES											
C-745						10-1-21		0923		5		1		X											
C-746								0924						X											
C-747								0925						X											
C-748								0926						X											
C-749								0927						X											
C-800								0928						X											
C-801								0929						X											
C-802								0844						X											
C-803								0845						X											
C-804								0846						X											
C-805								0847						X											
C-806								0848						X											
C-807								0849						X											
C-808								0850						X											
C-809								0915						X											
TOTAL 15																									
RELINQUISHED BY (Signature) 		DATE/TIME 10-1-21		RECEIVED BY (Signature) 		DATE/TIME 10-1-21		RECEIVED BY (Signature) 		TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐		LABORATORY USE ONLY RECEIVING TEMP _____ THERM# _____ CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # _____ ☐ HAND DELIVERED													
RELINQUISHED BY (Signature) 		DATE/TIME 10-1-21		RECEIVED BY (Signature) 		DATE/TIME 10-1-21		RECEIVED BY (Signature) 		TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐		LABORATORY USE ONLY RECEIVING TEMP _____ THERM# _____ CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # _____ ☐ HAND DELIVERED													
RELINQUISHED BY (Signature) 		DATE/TIME 10-1-21		RECEIVED BY (Signature) 		DATE/TIME 10-1-21		RECEIVED BY (Signature) 		TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐		LABORATORY USE ONLY RECEIVING TEMP _____ THERM# _____ CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # _____ ☐ HAND DELIVERED													
RELINQUISHED BY (Signature) 		DATE/TIME 10-1-21		RECEIVED BY (Signature) 		DATE/TIME 10-1-21		RECEIVED BY (Signature) 		TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐		LABORATORY USE ONLY RECEIVING TEMP _____ THERM# _____ CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # _____ ☐ HAND DELIVERED													
RELINQUISHED BY (Signature) 		DATE/TIME 10-1-21		RECEIVED BY (Signature) 		DATE/TIME 10-1-21		RECEIVED BY (Signature) 		TURN AROUND TIME NORMAL															

[illegible]

Aarson &
Associates, Inc.
Environmental Consultants

507 N Warrenfield Ste 202
Midland TX 79701
432 687 0901

Data Reported to

DATE 10-1-21 PAGE 4 OF 4
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME Palmisano AS T
LAI PROJECT # 21-0105-02 COLLECTOR TJ + MB + DSC

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State
MST/M

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESSERVED

ANALYSES

BTEX - MTBE ☐

TPH 4-18 ☐

GASOLINE MOD 8015 ☐

DIESEL - MOD 8015 ☐

OIL - MOD 8015 ☐

VOC 8260 ☐

SVOC 8270 ☐

8081 PESTICIDES ☐

8082 PCBs ☐

TCLP - METALS (RCRA) ☐

TCLP - PEST ☐

TOTAL METALS (RCRA) ☐

LEAD - TOTAL ☐

RCl ☐

TDS ☐

pH ☐

% MOISTURE ☐

CYANIDE ☐

PECHLORATE ☐

EXPLOSIVES ☐

CHLORIDE ANIONS ☐

ALKALINITY ☐

FIELD NOTES

TOTAL 13

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY
RECEIVING TEMP _____ THERM# _____
CUSTODY SEALS ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

LABORATORY Xenoco

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-6735-1

SDG Number: 21-0105-02

Login Number: 6735

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1364-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
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Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/18/2021 5:04:31 PM

Holly Taylor, Project Manager
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Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1364-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Job ID: 890-1364-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1364-1

Comments

No additional comments.

Receipt

The samples were received on 10/5/2021 3:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-860 (890-1364-23). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: C-866 (890-1364-29) and (880-7011-A-21-D). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: C-847 (890-1364-10). Evidence of matrix interferences is not obvious.

Method 8015B NM: Continuing calibration verification biased low, however previous one was within the 12-hour acceptance window and acceptable so therefore the data was qualified and reported.
(CCV 880-9185/3)

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9166 and analytical batch 880-9180 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-838

Lab Sample ID: 890-1364-1

Date Collected: 10/04/21 12:38

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198	mg/Kg		10/12/21 12:18	10/14/21 22:44	1
Toluene	<0.00198	U F1	0.00198	mg/Kg		10/12/21 12:18	10/14/21 22:44	1
Ethylbenzene	<0.00198	U F1	0.00198	mg/Kg		10/12/21 12:18	10/14/21 22:44	1
m-Xylene & p-Xylene	<0.00397	U F1	0.00397	mg/Kg		10/12/21 12:18	10/14/21 22:44	1
o-Xylene	<0.00198	U F1	0.00198	mg/Kg		10/12/21 12:18	10/14/21 22:44	1
Xylenes, Total	<0.00397	U F1	0.00397	mg/Kg		10/12/21 12:18	10/14/21 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	10/12/21 12:18	10/14/21 22:44	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/12/21 12:18	10/14/21 22:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/13/21 17:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 12:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 12:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	10/11/21 08:19	10/11/21 12:06	1
o-Terphenyl	116		70 - 130	10/11/21 08:19	10/11/21 12:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		4.95	mg/Kg			10/12/21 03:29	1

Client Sample ID: C-839

Lab Sample ID: 890-1364-2

Date Collected: 10/04/21 12:39

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/12/21 12:18	10/14/21 23:05	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/12/21 12:18	10/14/21 23:05	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/12/21 12:18	10/14/21 23:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/12/21 12:18	10/14/21 23:05	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/12/21 12:18	10/14/21 23:05	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/12/21 12:18	10/14/21 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	10/12/21 12:18	10/14/21 23:05	1
1,4-Difluorobenzene (Surr)	111		70 - 130	10/12/21 12:18	10/14/21 23:05	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-839

Lab Sample ID: 890-1364-2

Date Collected: 10/04/21 12:39

Matrix: Solid

Date Received: 10/05/21 15:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 13:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 13:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 13:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/11/21 08:19	10/11/21 13:12	1
o-Terphenyl	130		70 - 130			10/11/21 08:19	10/11/21 13:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		5.00	mg/Kg			10/12/21 03:35	1

Client Sample ID: C-840

Lab Sample ID: 890-1364-3

Date Collected: 10/04/21 12:40

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/12/21 12:18	10/14/21 23:25	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/12/21 12:18	10/14/21 23:25	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/12/21 12:18	10/14/21 23:25	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/12/21 12:18	10/14/21 23:25	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/12/21 12:18	10/14/21 23:25	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/12/21 12:18	10/14/21 23:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			10/12/21 12:18	10/14/21 23:25	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/12/21 12:18	10/14/21 23:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 13:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 13:34	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-840

Lab Sample ID: 890-1364-3

Date Collected: 10/04/21 12:40

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 13:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			10/11/21 08:19	10/11/21 13:34	1
o-Terphenyl	111		70 - 130			10/11/21 08:19	10/11/21 13:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.6		4.98	mg/Kg			10/12/21 03:40	1

Client Sample ID: C-841

Lab Sample ID: 890-1364-4

Date Collected: 10/04/21 12:41

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/14/21 23:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/14/21 23:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/14/21 23:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/12/21 12:18	10/14/21 23:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/14/21 23:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/12/21 12:18	10/14/21 23:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			10/12/21 12:18	10/14/21 23:46	1
1,4-Difluorobenzene (Surr)	84		70 - 130			10/12/21 12:18	10/14/21 23:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 13:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 13:55	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			10/11/21 08:19	10/11/21 13:55	1
o-Terphenyl	133	S1+	70 - 130			10/11/21 08:19	10/11/21 13:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	661		5.00	mg/Kg			10/12/21 03:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-842

Lab Sample ID: 890-1364-5

Date Collected: 10/04/21 12:42

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/12/21 12:18	10/15/21 00:07	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/12/21 12:18	10/15/21 00:07	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/12/21 12:18	10/15/21 00:07	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/12/21 12:18	10/15/21 00:07	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/12/21 12:18	10/15/21 00:07	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/12/21 12:18	10/15/21 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/12/21 12:18	10/15/21 00:07	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/12/21 12:18	10/15/21 00:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 14:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 14:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	10/11/21 08:19	10/11/21 14:17	1
o-Terphenyl	127		70 - 130	10/11/21 08:19	10/11/21 14:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.4		4.96	mg/Kg			10/12/21 03:51	1

Client Sample ID: C-843

Lab Sample ID: 890-1364-6

Date Collected: 10/04/21 12:43

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 00:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 00:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 00:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/12/21 12:18	10/15/21 00:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 00:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/12/21 12:18	10/15/21 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/12/21 12:18	10/15/21 00:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/12/21 12:18	10/15/21 00:28	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-843

Lab Sample ID: 890-1364-6

Date Collected: 10/04/21 12:43

Matrix: Solid

Date Received: 10/05/21 15:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 14:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 14:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 14:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/11/21 08:19	10/11/21 14:39	1
o-Terphenyl	125		70 - 130			10/11/21 08:19	10/11/21 14:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		5.00	mg/Kg			10/12/21 22:50	1

Client Sample ID: C-844

Lab Sample ID: 890-1364-7

Date Collected: 10/04/21 12:44

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 00:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 00:48	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 00:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/12/21 12:18	10/15/21 00:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 00:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/12/21 12:18	10/15/21 00:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			10/12/21 12:18	10/15/21 00:48	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/12/21 12:18	10/15/21 00:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 15:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 15:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-844

Lab Sample ID: 890-1364-7

Date Collected: 10/04/21 12:44

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 15:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/11/21 08:19	10/11/21 15:01	1
o-Terphenyl	119		70 - 130			10/11/21 08:19	10/11/21 15:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	217		4.98	mg/Kg			10/12/21 22:55	1

Client Sample ID: C-845

Lab Sample ID: 890-1364-8

Date Collected: 10/04/21 12:45

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 01:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 01:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 01:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/12/21 12:18	10/15/21 01:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 01:09	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/12/21 12:18	10/15/21 01:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/12/21 12:18	10/15/21 01:09	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/12/21 12:18	10/15/21 01:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 15:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 15:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 15:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/11/21 08:19	10/11/21 15:23	1
o-Terphenyl	122		70 - 130			10/11/21 08:19	10/11/21 15:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.5		5.02	mg/Kg			10/12/21 23:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-846

Lab Sample ID: 890-1364-9

Date Collected: 10/04/21 12:46

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 01:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 01:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 01:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/12/21 12:18	10/15/21 01:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 01:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/12/21 12:18	10/15/21 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/12/21 12:18	10/15/21 01:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/12/21 12:18	10/15/21 01:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 15:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 15:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	10/11/21 08:19	10/11/21 15:45	1
o-Terphenyl	128		70 - 130	10/11/21 08:19	10/11/21 15:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		4.99	mg/Kg			10/12/21 23:18	1

Client Sample ID: C-847

Lab Sample ID: 890-1364-10

Date Collected: 10/04/21 12:47

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 01:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 01:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 01:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/12/21 12:18	10/15/21 01:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 01:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/12/21 12:18	10/15/21 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	10/12/21 12:18	10/15/21 01:51	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/12/21 12:18	10/15/21 01:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-847

Lab Sample ID: 890-1364-10

Date Collected: 10/04/21 12:47

Matrix: Solid

Date Received: 10/05/21 15:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 16:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 16:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/11/21 08:19	10/11/21 16:07	1
o-Terphenyl	133	S1+	70 - 130			10/11/21 08:19	10/11/21 16:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.8		5.00	mg/Kg			10/12/21 23:35	1

Client Sample ID: C-848

Lab Sample ID: 890-1364-11

Date Collected: 10/04/21 12:48

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/12/21 12:18	10/15/21 03:13	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/12/21 12:18	10/15/21 03:13	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/12/21 12:18	10/15/21 03:13	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/12/21 12:18	10/15/21 03:13	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/12/21 12:18	10/15/21 03:13	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/12/21 12:18	10/15/21 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			10/12/21 12:18	10/15/21 03:13	1
1,4-Difluorobenzene (Surr)	118		70 - 130			10/12/21 12:18	10/15/21 03:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 16:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 16:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-848

Lab Sample ID: 890-1364-11

Date Collected: 10/04/21 12:48

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 16:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			10/11/21 08:19	10/11/21 16:51	1
o-Terphenyl	112		70 - 130			10/11/21 08:19	10/11/21 16:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.3		4.95	mg/Kg			10/12/21 23:41	1

Client Sample ID: C-849

Lab Sample ID: 890-1364-12

Date Collected: 10/04/21 14:49

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 03:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 03:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 03:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/12/21 12:18	10/15/21 03:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 03:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/12/21 12:18	10/15/21 03:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			10/12/21 12:18	10/15/21 03:34	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/12/21 12:18	10/15/21 03:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 17:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 17:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			10/11/21 08:19	10/11/21 17:13	1
o-Terphenyl	119		70 - 130			10/11/21 08:19	10/11/21 17:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1		4.95	mg/Kg			10/12/21 23:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-850

Lab Sample ID: 890-1364-13

Date Collected: 10/04/21 14:50

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 08:45	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 08:45	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 08:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/12/21 12:18	10/15/21 08:45	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 08:45	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/12/21 12:18	10/15/21 08:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/12/21 12:18	10/15/21 08:45	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/12/21 12:18	10/15/21 08:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 17:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 17:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	10/11/21 08:19	10/11/21 17:36	1
o-Terphenyl	111		70 - 130	10/11/21 08:19	10/11/21 17:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.5		4.95	mg/Kg			10/12/21 23:52	1

Client Sample ID: C-851

Lab Sample ID: 890-1364-14

Date Collected: 10/04/21 14:51

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 09:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 09:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 09:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/12/21 12:18	10/15/21 09:06	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 09:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/12/21 12:18	10/15/21 09:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	10/12/21 12:18	10/15/21 09:06	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/12/21 12:18	10/15/21 09:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-851

Lab Sample ID: 890-1364-14

Date Collected: 10/04/21 14:51

Matrix: Solid

Date Received: 10/05/21 15:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 17:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 17:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 17:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/11/21 08:19	10/11/21 17:57	1
o-Terphenyl	120		70 - 130			10/11/21 08:19	10/11/21 17:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		5.04	mg/Kg			10/12/21 23:57	1

Client Sample ID: C-852

Lab Sample ID: 890-1364-15

Date Collected: 10/04/21 14:52

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 09:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 09:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 09:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/12/21 12:18	10/15/21 09:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 09:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/12/21 12:18	10/15/21 09:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			10/12/21 12:18	10/15/21 09:27	1
1,4-Difluorobenzene (Surr)	89		70 - 130			10/12/21 12:18	10/15/21 09:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 18:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 18:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-852

Lab Sample ID: 890-1364-15

Date Collected: 10/04/21 14:52

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 18:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			10/11/21 08:19	10/11/21 18:19	1
o-Terphenyl	106		70 - 130			10/11/21 08:19	10/11/21 18:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.6		4.97	mg/Kg			10/13/21 00:03	1

Client Sample ID: C-853

Lab Sample ID: 890-1364-16

Date Collected: 10/05/21 14:53

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 09:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 09:48	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 09:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/12/21 12:18	10/15/21 09:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 09:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/12/21 12:18	10/15/21 09:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			10/12/21 12:18	10/15/21 09:48	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/12/21 12:18	10/15/21 09:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 18:41	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/11/21 08:19	10/11/21 18:41	1
o-Terphenyl	122		70 - 130			10/11/21 08:19	10/11/21 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.9		5.05	mg/Kg			10/13/21 00:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-854

Lab Sample ID: 890-1364-17

Date Collected: 10/05/21 14:54

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 10:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 10:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 10:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/12/21 12:18	10/15/21 10:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/15/21 10:09	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/12/21 12:18	10/15/21 10:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	10/12/21 12:18	10/15/21 10:09	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/12/21 12:18	10/15/21 10:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 19:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 19:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	10/11/21 08:19	10/11/21 19:02	1
o-Terphenyl	110		70 - 130	10/11/21 08:19	10/11/21 19:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.8		5.01	mg/Kg			10/13/21 09:34	1

Client Sample ID: C-855

Lab Sample ID: 890-1364-18

Date Collected: 10/05/21 14:55

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 10:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 10:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 10:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/12/21 12:18	10/15/21 10:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/12/21 12:18	10/15/21 10:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/12/21 12:18	10/15/21 10:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/12/21 12:18	10/15/21 10:29	1
1,4-Difluorobenzene (Surr)	89		70 - 130	10/12/21 12:18	10/15/21 10:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-855

Lab Sample ID: 890-1364-18

Date Collected: 10/05/21 14:55

Matrix: Solid

Date Received: 10/05/21 15:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 19:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 19:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 08:19	10/11/21 19:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/11/21 08:19	10/11/21 19:24	1
o-Terphenyl	115		70 - 130			10/11/21 08:19	10/11/21 19:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.9		4.95	mg/Kg			10/13/21 09:40	1

Client Sample ID: C-856

Lab Sample ID: 890-1364-19

Date Collected: 10/05/21 14:56

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 10:50	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 10:50	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 10:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/12/21 12:18	10/15/21 10:50	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 10:50	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/12/21 12:18	10/15/21 10:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			10/12/21 12:18	10/15/21 10:50	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/12/21 12:18	10/15/21 10:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 19:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 19:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-856

Lab Sample ID: 890-1364-19

Date Collected: 10/05/21 14:56

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/11/21 08:19	10/11/21 19:45	1
o-Terphenyl	127		70 - 130			10/11/21 08:19	10/11/21 19:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		4.98	mg/Kg			10/13/21 09:45	1

Client Sample ID: C-857

Lab Sample ID: 890-1364-20

Date Collected: 10/05/21 14:57

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 11:11	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 11:11	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 11:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/12/21 12:18	10/15/21 11:11	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/12/21 12:18	10/15/21 11:11	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/12/21 12:18	10/15/21 11:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			10/12/21 12:18	10/15/21 11:11	1
1,4-Difluorobenzene (Surr)	86		70 - 130			10/12/21 12:18	10/15/21 11:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/14/21 15:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 20:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 20:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 08:19	10/11/21 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/11/21 08:19	10/11/21 20:06	1
o-Terphenyl	116		70 - 130			10/11/21 08:19	10/11/21 20:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.3		4.96	mg/Kg			10/13/21 09:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-858

Lab Sample ID: 890-1364-21

Date Collected: 10/05/21 14:58

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 16:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 16:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 16:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:35	10/15/21 16:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 16:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:35	10/15/21 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	10/14/21 10:35	10/15/21 16:51	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/14/21 10:35	10/15/21 16:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 15:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 15:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	10/09/21 13:45	10/11/21 15:45	1
o-Terphenyl	99		70 - 130	10/09/21 13:45	10/11/21 15:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		5.04	mg/Kg			10/13/21 10:08	1

Client Sample ID: C-859

Lab Sample ID: 890-1364-22

Date Collected: 10/05/21 14:59

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 17:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 17:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 17:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:35	10/15/21 17:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 17:12	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:35	10/15/21 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	10/14/21 10:35	10/15/21 17:12	1
1,4-Difluorobenzene (Surr)	95		70 - 130	10/14/21 10:35	10/15/21 17:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-859

Lab Sample ID: 890-1364-22

Date Collected: 10/05/21 14:59

Matrix: Solid

Date Received: 10/05/21 15:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/09/21 13:45	10/11/21 16:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/09/21 13:45	10/11/21 16:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/09/21 13:45	10/11/21 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/09/21 13:45	10/11/21 16:07	1
o-Terphenyl	112		70 - 130			10/09/21 13:45	10/11/21 16:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.2		4.97	mg/Kg			10/13/21 10:13	1

Client Sample ID: C-860

Lab Sample ID: 890-1364-23

Date Collected: 10/05/21 15:00

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:35	10/15/21 17:32	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:35	10/15/21 17:32	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:35	10/15/21 17:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 10:35	10/15/21 17:32	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:35	10/15/21 17:32	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 10:35	10/15/21 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	349	S1+	70 - 130			10/14/21 10:35	10/15/21 17:32	1
1,4-Difluorobenzene (Surr)	265	S1+	70 - 130			10/14/21 10:35	10/15/21 17:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 16:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 16:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-860

Lab Sample ID: 890-1364-23

Date Collected: 10/05/21 15:00

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 16:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			10/09/21 13:45	10/11/21 16:51	1
o-Terphenyl	93		70 - 130			10/09/21 13:45	10/11/21 16:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.2		4.98	mg/Kg			10/13/21 10:19	1

Client Sample ID: C-861

Lab Sample ID: 890-1364-24

Date Collected: 10/05/21 15:01

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 18:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 18:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 18:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:35	10/15/21 18:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 18:55	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:35	10/15/21 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			10/14/21 10:35	10/15/21 18:55	1
1,4-Difluorobenzene (Surr)	80		70 - 130			10/14/21 10:35	10/15/21 18:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 17:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 17:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/09/21 13:45	10/11/21 17:13	1
o-Terphenyl	97		70 - 130			10/09/21 13:45	10/11/21 17:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		5.00	mg/Kg			10/13/21 10:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-862

Lab Sample ID: 890-1364-25

Date Collected: 10/05/21 15:02

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 19:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 19:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 19:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:35	10/15/21 19:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 19:15	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:35	10/15/21 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	10/14/21 10:35	10/15/21 19:15	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/14/21 10:35	10/15/21 19:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 17:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 17:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	10/09/21 13:45	10/11/21 17:36	1
o-Terphenyl	95		70 - 130	10/09/21 13:45	10/11/21 17:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.8		4.99	mg/Kg			10/13/21 10:30	1

Client Sample ID: C-863

Lab Sample ID: 890-1364-26

Date Collected: 10/05/21 15:03

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:35	10/15/21 19:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:35	10/15/21 19:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:35	10/15/21 19:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:35	10/15/21 19:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:35	10/15/21 19:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:35	10/15/21 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/14/21 10:35	10/15/21 19:36	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/14/21 10:35	10/15/21 19:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-863

Lab Sample ID: 890-1364-26

Date Collected: 10/05/21 15:03

Matrix: Solid

Date Received: 10/05/21 15:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/09/21 13:45	10/11/21 17:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/09/21 13:45	10/11/21 17:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/09/21 13:45	10/11/21 17:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/09/21 13:45	10/11/21 17:57	1
o-Terphenyl	100		70 - 130			10/09/21 13:45	10/11/21 17:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	317		5.00	mg/Kg			10/13/21 10:36	1

Client Sample ID: C-864

Lab Sample ID: 890-1364-27

Date Collected: 10/05/21 15:04

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 19:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 19:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 19:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:35	10/15/21 19:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 19:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:35	10/15/21 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/14/21 10:35	10/15/21 19:56	1
1,4-Difluorobenzene (Surr)	95		70 - 130			10/14/21 10:35	10/15/21 19:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 18:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 18:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-864

Lab Sample ID: 890-1364-27

Date Collected: 10/05/21 15:04

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 18:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			10/09/21 13:45	10/11/21 18:19	1
o-Terphenyl	94		70 - 130			10/09/21 13:45	10/11/21 18:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.73		4.95	mg/Kg			10/13/21 10:53	1

Client Sample ID: C-865

Lab Sample ID: 890-1364-28

Date Collected: 10/05/21 15:05

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:35	10/15/21 20:17	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:35	10/15/21 20:17	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:35	10/15/21 20:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:35	10/15/21 20:17	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:35	10/15/21 20:17	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:35	10/15/21 20:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			10/14/21 10:35	10/15/21 20:17	1
1,4-Difluorobenzene (Surr)	97		70 - 130			10/14/21 10:35	10/15/21 20:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 18:41	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			10/09/21 13:45	10/11/21 18:41	1
o-Terphenyl	101		70 - 130			10/09/21 13:45	10/11/21 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.4		4.98	mg/Kg			10/13/21 10:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-866

Lab Sample ID: 890-1364-29

Date Collected: 10/05/21 15:06

Matrix: Solid

Date Received: 10/05/21 15:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:35	10/15/21 20:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:35	10/15/21 20:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:35	10/15/21 20:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:35	10/15/21 20:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:35	10/15/21 20:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:35	10/15/21 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/14/21 10:35	10/15/21 20:37	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/14/21 10:35	10/15/21 20:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/09/21 12:20	10/10/21 19:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/09/21 12:20	10/10/21 19:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/09/21 12:20	10/10/21 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	10/09/21 12:20	10/10/21 19:34	1
o-Terphenyl	131	S1+	70 - 130	10/09/21 12:20	10/10/21 19:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.5		4.99	mg/Kg			10/13/21 11:39	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-7231-A-1-A MS	Matrix Spike	112	102
880-7231-A-1-B MSD	Matrix Spike Duplicate	110	102
890-1364-1	C-838	84	108
890-1364-1 MS	C-838	80	93
890-1364-1 MSD	C-838	91	3 S1-
890-1364-2	C-839	94	111
890-1364-3	C-840	97	103
890-1364-4	C-841	87	84
890-1364-5	C-842	86	106
890-1364-6	C-843	101	101
890-1364-7	C-844	91	102
890-1364-8	C-845	92	99
890-1364-9	C-846	88	103
890-1364-10	C-847	104	98
890-1364-11	C-848	100	118
890-1364-12	C-849	88	106
890-1364-13	C-850	88	97
890-1364-14	C-851	89	88
890-1364-15	C-852	102	89
890-1364-16	C-853	93	104
890-1364-17	C-854	113	94
890-1364-18	C-855	109	89
890-1364-19	C-856	90	107
890-1364-20	C-857	80	86
890-1364-21	C-858	106	90
890-1364-22	C-859	122	95
890-1364-23	C-860	349 S1+	265 S1+
890-1364-24	C-861	91	80
890-1364-25	C-862	116	91
890-1364-26	C-863	110	91
890-1364-27	C-864	98	95
890-1364-28	C-865	105	97
890-1364-29	C-866	102	94
LCS 880-9108/1-A	Lab Control Sample	146 S1+	129
LCS 880-9305/1-A	Lab Control Sample	85	108
LCSD 880-9108/2-A	Lab Control Sample Dup	114	102
LCSD 880-9305/2-A	Lab Control Sample Dup	88	96
MB 880-9108/5-A	Method Blank	95	96
MB 880-9121/5-A	Method Blank	120	101
MB 880-9305/5-A	Method Blank	133 S1+	124

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1364-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-7011-A-21-E MS	Matrix Spike	92	101
880-7011-A-21-F MSD	Matrix Spike Duplicate	99	109
890-1360-A-37-D MS	Matrix Spike	78	76
890-1360-A-37-E MSD	Matrix Spike Duplicate	79	74
890-1364-1	C-838	101	116
890-1364-1 MS	C-838	104	109
890-1364-1 MSD	C-838	104	108
890-1364-2	C-839	112	130
890-1364-3	C-840	95	111
890-1364-4	C-841	115	133 S1+
890-1364-5	C-842	109	127
890-1364-6	C-843	107	125
890-1364-7	C-844	102	119
890-1364-8	C-845	107	122
890-1364-9	C-846	112	128
890-1364-10	C-847	117	133 S1+
890-1364-11	C-848	97	112
890-1364-12	C-849	103	119
890-1364-13	C-850	96	111
890-1364-14	C-851	102	120
890-1364-15	C-852	94	106
890-1364-16	C-853	106	122
890-1364-17	C-854	98	110
890-1364-18	C-855	102	115
890-1364-19	C-856	111	127
890-1364-20	C-857	102	116
890-1364-21	C-858	94	99
890-1364-22	C-859	104	112
890-1364-23	C-860	88	93
890-1364-24	C-861	93	97
890-1364-25	C-862	90	95
890-1364-26	C-863	93	100
890-1364-27	C-864	89	94
890-1364-28	C-865	95	101
890-1364-29	C-866	125	131 S1+
LCS 880-9163/2-A	Lab Control Sample	97	96
LCS 880-9166/2-A	Lab Control Sample	88	91
LCS 880-9184/2-A	Lab Control Sample	85	89
LCSD 880-9163/3-A	Lab Control Sample Dup	102	101
LCSD 880-9166/3-A	Lab Control Sample Dup	100	105
LCSD 880-9184/3-A	Lab Control Sample Dup	88	91
MB 880-9163/1-A	Method Blank	109	121
MB 880-9166/1-A	Method Blank	95	105
MB 880-9184/1-A	Method Blank	101	120

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9108/5-A

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9108

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 14:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 14:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 14:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:35	10/15/21 14:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 14:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:35	10/15/21 14:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/14/21 10:35	10/15/21 14:06	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/14/21 10:35	10/15/21 14:06	1

Lab Sample ID: LCS 880-9108/1-A

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1197		mg/Kg		120	70 - 130
Toluene	0.100	0.1105		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1132		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2410		mg/Kg		121	70 - 130
o-Xylene	0.100	0.1185		mg/Kg		119	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130
1,4-Difluorobenzene (Surr)	129		70 - 130

Lab Sample ID: LCSD 880-9108/2-A

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9108

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09813		mg/Kg		98	70 - 130	20	35
Toluene	0.100	0.09437		mg/Kg		94	70 - 130	16	35
Ethylbenzene	0.100	0.09672		mg/Kg		97	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2018		mg/Kg		101	70 - 130	18	35
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-7231-A-1-A MS

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.101	0.08113		mg/Kg		81	70 - 130
Toluene	<0.00200	U	0.101	0.07770		mg/Kg		77	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-7231-A-1-A MS

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.101	0.07827		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1629		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.101	0.08169		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-7231-A-1-B MSD

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9108

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.08154		mg/Kg		82	70 - 130	0	35
Toluene	<0.00200	U	0.0996	0.07477		mg/Kg		75	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0996	0.07819		mg/Kg		79	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1632		mg/Kg		82	70 - 130	0	35
o-Xylene	<0.00200	U	0.0996	0.08149		mg/Kg		82	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-9121/5-A

Matrix: Solid

Analysis Batch: 9391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9121

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/21 10:30	10/14/21 11:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 10:30	10/14/21 11:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/21 10:30	10/14/21 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/11/21 10:30	10/14/21 11:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 10:30	10/14/21 11:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/21 10:30	10/14/21 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	10/11/21 10:30	10/14/21 11:23	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/11/21 10:30	10/14/21 11:23	1

Lab Sample ID: MB 880-9305/5-A

Matrix: Solid

Analysis Batch: 9391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9305

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/14/21 22:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/14/21 22:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/14/21 22:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/12/21 12:18	10/14/21 22:22	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-9305/5-A

Matrix: Solid

Analysis Batch: 9391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9305

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:18	10/14/21 22:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/12/21 12:18	10/14/21 22:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	10/12/21 12:18	10/14/21 22:22	1
1,4-Difluorobenzene (Surr)	124		70 - 130	10/12/21 12:18	10/14/21 22:22	1

Lab Sample ID: LCS 880-9305/1-A

Matrix: Solid

Analysis Batch: 9391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07688		mg/Kg		77	70 - 130
Toluene	0.100	0.1004		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.09285		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1560		mg/Kg		78	70 - 130
o-Xylene	0.100	0.07768		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-9305/2-A

Matrix: Solid

Analysis Batch: 9391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9305

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08538		mg/Kg		85	70 - 130	10	35
Toluene	0.100	0.09577		mg/Kg		96	70 - 130	5	35
Ethylbenzene	0.100	0.08984		mg/Kg		90	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1554		mg/Kg		78	70 - 130	0	35
o-Xylene	0.100	0.07495		mg/Kg		75	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-1364-1 MS

Matrix: Solid

Analysis Batch: 9391

Client Sample ID: C-838

Prep Type: Total/NA

Prep Batch: 9305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.0996	0.06509	F1	mg/Kg		64	70 - 130
Toluene	<0.00198	U F1	0.0996	0.07000	F1	mg/Kg		68	70 - 130
Ethylbenzene	<0.00198	U F1	0.0996	0.06547	F1	mg/Kg		65	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.199	0.1176	F1	mg/Kg		59	70 - 130
o-Xylene	<0.00198	U F1	0.0996	0.05506	F1	mg/Kg		55	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1364-1 MS

Matrix: Solid

Analysis Batch: 9391

Client Sample ID: C-838

Prep Type: Total/NA

Prep Batch: 9305

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-1364-1 MSD

Matrix: Solid

Analysis Batch: 9391

Client Sample ID: C-838

Prep Type: Total/NA

Prep Batch: 9305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0994	0.06147	F1	mg/Kg		61	70 - 130	6	35
Toluene	<0.00198	U F1	0.0994	0.08266		mg/Kg		81	70 - 130	17	35
Ethylbenzene	<0.00198	U F1	0.0994	0.07175		mg/Kg		71	70 - 130	9	35
m-Xylene & p-Xylene	<0.00397	U F1	0.199	0.1333	F1	mg/Kg		67	70 - 130	13	35
o-Xylene	<0.00198	U F1	0.0994	0.06023	F1	mg/Kg		61	70 - 130	9	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	3	S1-	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-9163/1-A

Matrix: Solid

Analysis Batch: 9173

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9163

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/09/21 12:20	10/10/21 10:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/09/21 12:20	10/10/21 10:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/09/21 12:20	10/10/21 10:34	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	109		70 - 130	10/09/21 12:20	10/10/21 10:34	1		
o-Terphenyl	121		70 - 130	10/09/21 12:20	10/10/21 10:34	1		

Lab Sample ID: LCS 880-9163/2-A

Matrix: Solid

Analysis Batch: 9173

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	895.2		mg/Kg		90	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1051		mg/Kg		105	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	96		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-9163/3-A

Matrix: Solid

Analysis Batch: 9173

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9163

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	908.6		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1041		mg/Kg		104	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	102		70 - 130						
o-Terphenyl	101		70 - 130						

Lab Sample ID: 880-7011-A-21-E MS

Matrix: Solid

Analysis Batch: 9173

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9163

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	109.6	F1	mg/Kg		11	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	95.37	F1	mg/Kg		10	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: 880-7011-A-21-F MSD

Matrix: Solid

Analysis Batch: 9173

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	127.3	F1	mg/Kg		13	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	102.3	F1	mg/Kg		10	70 - 130	7	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	109		70 - 130								

Lab Sample ID: MB 880-9166/1-A

Matrix: Solid

Analysis Batch: 9180

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9166

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 11:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 11:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 11:01	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-9166/1-A

Matrix: Solid

Analysis Batch: 9180

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9166

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	95		70 - 130	10/09/21 13:45	10/11/21 11:01	1				
o-Terphenyl	105		70 - 130	10/09/21 13:45	10/11/21 11:01	1				

Lab Sample ID: LCS 880-9166/2-A

Matrix: Solid

Analysis Batch: 9180

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9166

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	748.8		mg/Kg		75	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	750.2		mg/Kg		75	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-9166/3-A

Matrix: Solid

Analysis Batch: 9180

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9166

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	854.8		mg/Kg		85	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	884.5		mg/Kg		88	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-1360-A-37-D MS

Matrix: Solid

Analysis Batch: 9180

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9166

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	690.2	F1	mg/Kg		69	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	694.8		mg/Kg		70	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	76		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1360-A-37-E MSD

Matrix: Solid

Analysis Batch: 9180

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9166

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	679.9	F1	mg/Kg		68	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	683.5	F1	mg/Kg		68	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	79		70 - 130								
o-Terphenyl	74		70 - 130								

Lab Sample ID: MB 880-9184/1-A

Matrix: Solid

Analysis Batch: 9185

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9184

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 11:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 11:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 08:19	10/11/21 11:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/11/21 08:19	10/11/21 11:01	1
o-Terphenyl	120		70 - 130			10/11/21 08:19	10/11/21 11:01	1

Lab Sample ID: LCS 880-9184/2-A

Matrix: Solid

Analysis Batch: 9185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	786.9		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	956.2		mg/Kg		96	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	85		70 - 130						
o-Terphenyl	89		70 - 130						

Lab Sample ID: LCSD 880-9184/3-A

Matrix: Solid

Analysis Batch: 9185

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9184

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	758.2		mg/Kg		76	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	909.6		mg/Kg		91	70 - 130	5	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-9184/3-A

Matrix: Solid

Analysis Batch: 9185

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9184

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-1364-1 MS

Matrix: Solid

Analysis Batch: 9185

Client Sample ID: C-838

Prep Type: Total/NA

Prep Batch: 9184

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	823.4		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1053		mg/Kg		106	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: 890-1364-1 MSD

Matrix: Solid

Analysis Batch: 9185

Client Sample ID: C-838

Prep Type: Total/NA

Prep Batch: 9184

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	886.7		mg/Kg		86	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1039		mg/Kg		104	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	108		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9130/1-A

Matrix: Solid

Analysis Batch: 9244

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/12/21 01:03	1

Lab Sample ID: LCS 880-9130/2-A

Matrix: Solid

Analysis Batch: 9244

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.7		mg/Kg		98	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-9130/3-A

Matrix: Solid

Analysis Batch: 9244

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.0		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-6823-A-8-B MS

Matrix: Solid

Analysis Batch: 9244

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1500		1250	2767		mg/Kg		102	90 - 110		

Lab Sample ID: 880-6823-A-8-C MSD

Matrix: Solid

Analysis Batch: 9244

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1500		1250	2771		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-9136/1-A

Matrix: Solid

Analysis Batch: 9315

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/12/21 21:20	1

Lab Sample ID: LCS 880-9136/2-A

Matrix: Solid

Analysis Batch: 9315

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.6		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-9136/3-A

Matrix: Solid

Analysis Batch: 9315

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	248.7		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-1364-7 MS

Matrix: Solid

Analysis Batch: 9315

Client Sample ID: C-844

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	217		249	469.8		mg/Kg		102	90 - 110		

Lab Sample ID: 890-1364-7 MSD

Matrix: Solid

Analysis Batch: 9315

Client Sample ID: C-844

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	217		249	471.6		mg/Kg		102	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9195/1-A

Matrix: Solid

Analysis Batch: 9363

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/13/21 09:00	1

Lab Sample ID: LCS 880-9195/2-A

Matrix: Solid

Analysis Batch: 9363

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	242.8		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-9195/3-A

Matrix: Solid

Analysis Batch: 9363

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	243.3		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-1364-26 MS

Matrix: Solid

Analysis Batch: 9363

Client Sample ID: C-863

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	317		250	564.1		mg/Kg		99	90 - 110

Lab Sample ID: 890-1364-26 MSD

Matrix: Solid

Analysis Batch: 9363

Client Sample ID: C-863

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	317		250	565.5		mg/Kg		99	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

GC VOA

Prep Batch: 9108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-21	C-858	Total/NA	Solid	5035	
890-1364-22	C-859	Total/NA	Solid	5035	
890-1364-23	C-860	Total/NA	Solid	5035	
890-1364-24	C-861	Total/NA	Solid	5035	
890-1364-25	C-862	Total/NA	Solid	5035	
890-1364-26	C-863	Total/NA	Solid	5035	
890-1364-27	C-864	Total/NA	Solid	5035	
890-1364-28	C-865	Total/NA	Solid	5035	
890-1364-29	C-866	Total/NA	Solid	5035	
MB 880-9108/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9108/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9108/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7231-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-7231-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 9121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9121/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 9305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-1	C-838	Total/NA	Solid	5035	
890-1364-2	C-839	Total/NA	Solid	5035	
890-1364-3	C-840	Total/NA	Solid	5035	
890-1364-4	C-841	Total/NA	Solid	5035	
890-1364-5	C-842	Total/NA	Solid	5035	
890-1364-6	C-843	Total/NA	Solid	5035	
890-1364-7	C-844	Total/NA	Solid	5035	
890-1364-8	C-845	Total/NA	Solid	5035	
890-1364-9	C-846	Total/NA	Solid	5035	
890-1364-10	C-847	Total/NA	Solid	5035	
890-1364-11	C-848	Total/NA	Solid	5035	
890-1364-12	C-849	Total/NA	Solid	5035	
890-1364-13	C-850	Total/NA	Solid	5035	
890-1364-14	C-851	Total/NA	Solid	5035	
890-1364-15	C-852	Total/NA	Solid	5035	
890-1364-16	C-853	Total/NA	Solid	5035	
890-1364-17	C-854	Total/NA	Solid	5035	
890-1364-18	C-855	Total/NA	Solid	5035	
890-1364-19	C-856	Total/NA	Solid	5035	
890-1364-20	C-857	Total/NA	Solid	5035	
MB 880-9305/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9305/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9305/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1364-1 MS	C-838	Total/NA	Solid	5035	
890-1364-1 MSD	C-838	Total/NA	Solid	5035	

Analysis Batch: 9391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-1	C-838	Total/NA	Solid	8021B	9305
890-1364-2	C-839	Total/NA	Solid	8021B	9305

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9391 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-3	C-840	Total/NA	Solid	8021B	9305
890-1364-4	C-841	Total/NA	Solid	8021B	9305
890-1364-5	C-842	Total/NA	Solid	8021B	9305
890-1364-6	C-843	Total/NA	Solid	8021B	9305
890-1364-7	C-844	Total/NA	Solid	8021B	9305
890-1364-8	C-845	Total/NA	Solid	8021B	9305
890-1364-9	C-846	Total/NA	Solid	8021B	9305
890-1364-10	C-847	Total/NA	Solid	8021B	9305
890-1364-11	C-848	Total/NA	Solid	8021B	9305
890-1364-12	C-849	Total/NA	Solid	8021B	9305
890-1364-13	C-850	Total/NA	Solid	8021B	9305
890-1364-14	C-851	Total/NA	Solid	8021B	9305
890-1364-15	C-852	Total/NA	Solid	8021B	9305
890-1364-16	C-853	Total/NA	Solid	8021B	9305
890-1364-17	C-854	Total/NA	Solid	8021B	9305
890-1364-18	C-855	Total/NA	Solid	8021B	9305
890-1364-19	C-856	Total/NA	Solid	8021B	9305
890-1364-20	C-857	Total/NA	Solid	8021B	9305
MB 880-9121/5-A	Method Blank	Total/NA	Solid	8021B	9121
MB 880-9305/5-A	Method Blank	Total/NA	Solid	8021B	9305
LCS 880-9305/1-A	Lab Control Sample	Total/NA	Solid	8021B	9305
LCSD 880-9305/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9305
890-1364-1 MS	C-838	Total/NA	Solid	8021B	9305
890-1364-1 MSD	C-838	Total/NA	Solid	8021B	9305

Analysis Batch: 9398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-1	C-838	Total/NA	Solid	Total BTEX	
890-1364-2	C-839	Total/NA	Solid	Total BTEX	
890-1364-3	C-840	Total/NA	Solid	Total BTEX	
890-1364-4	C-841	Total/NA	Solid	Total BTEX	
890-1364-5	C-842	Total/NA	Solid	Total BTEX	
890-1364-6	C-843	Total/NA	Solid	Total BTEX	
890-1364-7	C-844	Total/NA	Solid	Total BTEX	
890-1364-8	C-845	Total/NA	Solid	Total BTEX	
890-1364-9	C-846	Total/NA	Solid	Total BTEX	
890-1364-10	C-847	Total/NA	Solid	Total BTEX	
890-1364-11	C-848	Total/NA	Solid	Total BTEX	
890-1364-12	C-849	Total/NA	Solid	Total BTEX	
890-1364-13	C-850	Total/NA	Solid	Total BTEX	
890-1364-14	C-851	Total/NA	Solid	Total BTEX	
890-1364-15	C-852	Total/NA	Solid	Total BTEX	
890-1364-16	C-853	Total/NA	Solid	Total BTEX	
890-1364-17	C-854	Total/NA	Solid	Total BTEX	
890-1364-18	C-855	Total/NA	Solid	Total BTEX	
890-1364-19	C-856	Total/NA	Solid	Total BTEX	
890-1364-20	C-857	Total/NA	Solid	Total BTEX	

Analysis Batch: 9521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-21	C-858	Total/NA	Solid	8021B	9108

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-22	C-859	Total/NA	Solid	8021B	9108
890-1364-23	C-860	Total/NA	Solid	8021B	9108
890-1364-24	C-861	Total/NA	Solid	8021B	9108
890-1364-25	C-862	Total/NA	Solid	8021B	9108
890-1364-26	C-863	Total/NA	Solid	8021B	9108
890-1364-27	C-864	Total/NA	Solid	8021B	9108
890-1364-28	C-865	Total/NA	Solid	8021B	9108
890-1364-29	C-866	Total/NA	Solid	8021B	9108
MB 880-9108/5-A	Method Blank	Total/NA	Solid	8021B	9108
LCS 880-9108/1-A	Lab Control Sample	Total/NA	Solid	8021B	9108
LCSD 880-9108/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9108
880-7231-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	9108
880-7231-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9108

Analysis Batch: 9792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-21	C-858	Total/NA	Solid	Total BTEX	
890-1364-22	C-859	Total/NA	Solid	Total BTEX	
890-1364-23	C-860	Total/NA	Solid	Total BTEX	
890-1364-24	C-861	Total/NA	Solid	Total BTEX	
890-1364-25	C-862	Total/NA	Solid	Total BTEX	
890-1364-26	C-863	Total/NA	Solid	Total BTEX	
890-1364-27	C-864	Total/NA	Solid	Total BTEX	
890-1364-28	C-865	Total/NA	Solid	Total BTEX	
890-1364-29	C-866	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 9163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-29	C-866	Total/NA	Solid	8015NM Prep	
MB 880-9163/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9163/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9163/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7011-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-7011-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 9166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-21	C-858	Total/NA	Solid	8015NM Prep	
890-1364-22	C-859	Total/NA	Solid	8015NM Prep	
890-1364-23	C-860	Total/NA	Solid	8015NM Prep	
890-1364-24	C-861	Total/NA	Solid	8015NM Prep	
890-1364-25	C-862	Total/NA	Solid	8015NM Prep	
890-1364-26	C-863	Total/NA	Solid	8015NM Prep	
890-1364-27	C-864	Total/NA	Solid	8015NM Prep	
890-1364-28	C-865	Total/NA	Solid	8015NM Prep	
MB 880-9166/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9166/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1360-A-37-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 9166 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1360-A-37-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-29	C-866	Total/NA	Solid	8015B NM	9163
MB 880-9163/1-A	Method Blank	Total/NA	Solid	8015B NM	9163
LCS 880-9163/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9163
LCSD 880-9163/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9163
880-7011-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	9163
880-7011-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9163

Analysis Batch: 9180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-21	C-858	Total/NA	Solid	8015B NM	9166
890-1364-22	C-859	Total/NA	Solid	8015B NM	9166
890-1364-23	C-860	Total/NA	Solid	8015B NM	9166
890-1364-24	C-861	Total/NA	Solid	8015B NM	9166
890-1364-25	C-862	Total/NA	Solid	8015B NM	9166
890-1364-26	C-863	Total/NA	Solid	8015B NM	9166
890-1364-27	C-864	Total/NA	Solid	8015B NM	9166
890-1364-28	C-865	Total/NA	Solid	8015B NM	9166
MB 880-9166/1-A	Method Blank	Total/NA	Solid	8015B NM	9166
LCS 880-9166/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9166
LCSD 880-9166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9166
890-1360-A-37-D MS	Matrix Spike	Total/NA	Solid	8015B NM	9166
890-1360-A-37-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9166

Prep Batch: 9184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-1	C-838	Total/NA	Solid	8015NM Prep	
890-1364-2	C-839	Total/NA	Solid	8015NM Prep	
890-1364-3	C-840	Total/NA	Solid	8015NM Prep	
890-1364-4	C-841	Total/NA	Solid	8015NM Prep	
890-1364-5	C-842	Total/NA	Solid	8015NM Prep	
890-1364-6	C-843	Total/NA	Solid	8015NM Prep	
890-1364-7	C-844	Total/NA	Solid	8015NM Prep	
890-1364-8	C-845	Total/NA	Solid	8015NM Prep	
890-1364-9	C-846	Total/NA	Solid	8015NM Prep	
890-1364-10	C-847	Total/NA	Solid	8015NM Prep	
890-1364-11	C-848	Total/NA	Solid	8015NM Prep	
890-1364-12	C-849	Total/NA	Solid	8015NM Prep	
890-1364-13	C-850	Total/NA	Solid	8015NM Prep	
890-1364-14	C-851	Total/NA	Solid	8015NM Prep	
890-1364-15	C-852	Total/NA	Solid	8015NM Prep	
890-1364-16	C-853	Total/NA	Solid	8015NM Prep	
890-1364-17	C-854	Total/NA	Solid	8015NM Prep	
890-1364-18	C-855	Total/NA	Solid	8015NM Prep	
890-1364-19	C-856	Total/NA	Solid	8015NM Prep	
890-1364-20	C-857	Total/NA	Solid	8015NM Prep	
MB 880-9184/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9184/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 9184 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-9184/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1364-1 MS	C-838	Total/NA	Solid	8015NM Prep	
890-1364-1 MSD	C-838	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-1	C-838	Total/NA	Solid	8015B NM	9184
890-1364-2	C-839	Total/NA	Solid	8015B NM	9184
890-1364-3	C-840	Total/NA	Solid	8015B NM	9184
890-1364-4	C-841	Total/NA	Solid	8015B NM	9184
890-1364-5	C-842	Total/NA	Solid	8015B NM	9184
890-1364-6	C-843	Total/NA	Solid	8015B NM	9184
890-1364-7	C-844	Total/NA	Solid	8015B NM	9184
890-1364-8	C-845	Total/NA	Solid	8015B NM	9184
890-1364-9	C-846	Total/NA	Solid	8015B NM	9184
890-1364-10	C-847	Total/NA	Solid	8015B NM	9184
890-1364-11	C-848	Total/NA	Solid	8015B NM	9184
890-1364-12	C-849	Total/NA	Solid	8015B NM	9184
890-1364-13	C-850	Total/NA	Solid	8015B NM	9184
890-1364-14	C-851	Total/NA	Solid	8015B NM	9184
890-1364-15	C-852	Total/NA	Solid	8015B NM	9184
890-1364-16	C-853	Total/NA	Solid	8015B NM	9184
890-1364-17	C-854	Total/NA	Solid	8015B NM	9184
890-1364-18	C-855	Total/NA	Solid	8015B NM	9184
890-1364-19	C-856	Total/NA	Solid	8015B NM	9184
890-1364-20	C-857	Total/NA	Solid	8015B NM	9184
MB 880-9184/1-A	Method Blank	Total/NA	Solid	8015B NM	9184
LCS 880-9184/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9184
LCSD 880-9184/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9184
890-1364-1 MS	C-838	Total/NA	Solid	8015B NM	9184
890-1364-1 MSD	C-838	Total/NA	Solid	8015B NM	9184

Analysis Batch: 9187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-1	C-838	Total/NA	Solid	8015 NM	
890-1364-2	C-839	Total/NA	Solid	8015 NM	
890-1364-3	C-840	Total/NA	Solid	8015 NM	
890-1364-4	C-841	Total/NA	Solid	8015 NM	
890-1364-5	C-842	Total/NA	Solid	8015 NM	
890-1364-6	C-843	Total/NA	Solid	8015 NM	
890-1364-7	C-844	Total/NA	Solid	8015 NM	
890-1364-8	C-845	Total/NA	Solid	8015 NM	
890-1364-9	C-846	Total/NA	Solid	8015 NM	
890-1364-10	C-847	Total/NA	Solid	8015 NM	
890-1364-11	C-848	Total/NA	Solid	8015 NM	
890-1364-12	C-849	Total/NA	Solid	8015 NM	
890-1364-13	C-850	Total/NA	Solid	8015 NM	
890-1364-14	C-851	Total/NA	Solid	8015 NM	
890-1364-15	C-852	Total/NA	Solid	8015 NM	
890-1364-16	C-853	Total/NA	Solid	8015 NM	
890-1364-17	C-854	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 9187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-18	C-855	Total/NA	Solid	8015 NM	
890-1364-19	C-856	Total/NA	Solid	8015 NM	
890-1364-20	C-857	Total/NA	Solid	8015 NM	
890-1364-21	C-858	Total/NA	Solid	8015 NM	
890-1364-22	C-859	Total/NA	Solid	8015 NM	
890-1364-23	C-860	Total/NA	Solid	8015 NM	
890-1364-24	C-861	Total/NA	Solid	8015 NM	
890-1364-25	C-862	Total/NA	Solid	8015 NM	
890-1364-26	C-863	Total/NA	Solid	8015 NM	
890-1364-27	C-864	Total/NA	Solid	8015 NM	
890-1364-28	C-865	Total/NA	Solid	8015 NM	
890-1364-29	C-866	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 9130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-1	C-838	Soluble	Solid	DI Leach	
890-1364-2	C-839	Soluble	Solid	DI Leach	
890-1364-3	C-840	Soluble	Solid	DI Leach	
890-1364-4	C-841	Soluble	Solid	DI Leach	
890-1364-5	C-842	Soluble	Solid	DI Leach	
MB 880-9130/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9130/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9130/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6823-A-8-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-6823-A-8-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 9136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-6	C-843	Soluble	Solid	DI Leach	
890-1364-7	C-844	Soluble	Solid	DI Leach	
890-1364-8	C-845	Soluble	Solid	DI Leach	
890-1364-9	C-846	Soluble	Solid	DI Leach	
890-1364-10	C-847	Soluble	Solid	DI Leach	
890-1364-11	C-848	Soluble	Solid	DI Leach	
890-1364-12	C-849	Soluble	Solid	DI Leach	
890-1364-13	C-850	Soluble	Solid	DI Leach	
890-1364-14	C-851	Soluble	Solid	DI Leach	
890-1364-15	C-852	Soluble	Solid	DI Leach	
890-1364-16	C-853	Soluble	Solid	DI Leach	
MB 880-9136/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9136/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9136/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1364-7 MS	C-844	Soluble	Solid	DI Leach	
890-1364-7 MSD	C-844	Soluble	Solid	DI Leach	

Leach Batch: 9195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-17	C-854	Soluble	Solid	DI Leach	
890-1364-18	C-855	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 9195 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-19	C-856	Soluble	Solid	DI Leach	
890-1364-20	C-857	Soluble	Solid	DI Leach	
890-1364-21	C-858	Soluble	Solid	DI Leach	
890-1364-22	C-859	Soluble	Solid	DI Leach	
890-1364-23	C-860	Soluble	Solid	DI Leach	
890-1364-24	C-861	Soluble	Solid	DI Leach	
890-1364-25	C-862	Soluble	Solid	DI Leach	
890-1364-26	C-863	Soluble	Solid	DI Leach	
890-1364-27	C-864	Soluble	Solid	DI Leach	
890-1364-28	C-865	Soluble	Solid	DI Leach	
890-1364-29	C-866	Soluble	Solid	DI Leach	
MB 880-9195/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9195/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9195/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1364-26 MS	C-863	Soluble	Solid	DI Leach	
890-1364-26 MSD	C-863	Soluble	Solid	DI Leach	

Analysis Batch: 9244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-1	C-838	Soluble	Solid	300.0	9130
890-1364-2	C-839	Soluble	Solid	300.0	9130
890-1364-3	C-840	Soluble	Solid	300.0	9130
890-1364-4	C-841	Soluble	Solid	300.0	9130
890-1364-5	C-842	Soluble	Solid	300.0	9130
MB 880-9130/1-A	Method Blank	Soluble	Solid	300.0	9130
LCS 880-9130/2-A	Lab Control Sample	Soluble	Solid	300.0	9130
LCSD 880-9130/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9130
880-6823-A-8-B MS	Matrix Spike	Soluble	Solid	300.0	9130
880-6823-A-8-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9130

Analysis Batch: 9315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-6	C-843	Soluble	Solid	300.0	9136
890-1364-7	C-844	Soluble	Solid	300.0	9136
890-1364-8	C-845	Soluble	Solid	300.0	9136
890-1364-9	C-846	Soluble	Solid	300.0	9136
890-1364-10	C-847	Soluble	Solid	300.0	9136
890-1364-11	C-848	Soluble	Solid	300.0	9136
890-1364-12	C-849	Soluble	Solid	300.0	9136
890-1364-13	C-850	Soluble	Solid	300.0	9136
890-1364-14	C-851	Soluble	Solid	300.0	9136
890-1364-15	C-852	Soluble	Solid	300.0	9136
890-1364-16	C-853	Soluble	Solid	300.0	9136
MB 880-9136/1-A	Method Blank	Soluble	Solid	300.0	9136
LCS 880-9136/2-A	Lab Control Sample	Soluble	Solid	300.0	9136
LCSD 880-9136/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9136
890-1364-7 MS	C-844	Soluble	Solid	300.0	9136
890-1364-7 MSD	C-844	Soluble	Solid	300.0	9136

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 9363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1364-17	C-854	Soluble	Solid	300.0	9195
890-1364-18	C-855	Soluble	Solid	300.0	9195
890-1364-19	C-856	Soluble	Solid	300.0	9195
890-1364-20	C-857	Soluble	Solid	300.0	9195
890-1364-21	C-858	Soluble	Solid	300.0	9195
890-1364-22	C-859	Soluble	Solid	300.0	9195
890-1364-23	C-860	Soluble	Solid	300.0	9195
890-1364-24	C-861	Soluble	Solid	300.0	9195
890-1364-25	C-862	Soluble	Solid	300.0	9195
890-1364-26	C-863	Soluble	Solid	300.0	9195
890-1364-27	C-864	Soluble	Solid	300.0	9195
890-1364-28	C-865	Soluble	Solid	300.0	9195
890-1364-29	C-866	Soluble	Solid	300.0	9195
MB 880-9195/1-A	Method Blank	Soluble	Solid	300.0	9195
LCS 880-9195/2-A	Lab Control Sample	Soluble	Solid	300.0	9195
LCSD 880-9195/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9195
890-1364-26 MS	C-863	Soluble	Solid	300.0	9195
890-1364-26 MSD	C-863	Soluble	Solid	300.0	9195

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-838

Lab Sample ID: 890-1364-1

Date Collected: 10/04/21 12:38

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/14/21 22:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/13/21 17:42	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 12:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9130	10/08/21 15:42	CH	XEN MID
Soluble	Analysis	300.0		1			9244	10/12/21 03:29	CH	XEN MID

Client Sample ID: C-839

Lab Sample ID: 890-1364-2

Date Collected: 10/04/21 12:39

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/14/21 23:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 13:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9130	10/08/21 15:42	CH	XEN MID
Soluble	Analysis	300.0		1			9244	10/12/21 03:35	CH	XEN MID

Client Sample ID: C-840

Lab Sample ID: 890-1364-3

Date Collected: 10/04/21 12:40

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/14/21 23:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 13:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9130	10/08/21 15:42	CH	XEN MID
Soluble	Analysis	300.0		1			9244	10/12/21 03:40	CH	XEN MID

Client Sample ID: C-841

Lab Sample ID: 890-1364-4

Date Collected: 10/04/21 12:41

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/14/21 23:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-841

Lab Sample ID: 890-1364-4

Date Collected: 10/04/21 12:41

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 13:55	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9130	10/08/21 15:42	CH	XEN MID
Soluble	Analysis	300.0		1			9244	10/12/21 03:46	CH	XEN MID

Client Sample ID: C-842

Lab Sample ID: 890-1364-5

Date Collected: 10/04/21 12:42

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 00:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 14:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9130	10/08/21 15:42	CH	XEN MID
Soluble	Analysis	300.0		1			9244	10/12/21 03:51	CH	XEN MID

Client Sample ID: C-843

Lab Sample ID: 890-1364-6

Date Collected: 10/04/21 12:43

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 00:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 14:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1			9315	10/12/21 22:50	CH	XEN MID

Client Sample ID: C-844

Lab Sample ID: 890-1364-7

Date Collected: 10/04/21 12:44

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 00:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 15:01	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-844

Date Collected: 10/04/21 12:44

Date Received: 10/05/21 15:50

Lab Sample ID: 890-1364-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1			9315	10/12/21 22:55	CH	XEN MID

Client Sample ID: C-845

Date Collected: 10/04/21 12:45

Date Received: 10/05/21 15:50

Lab Sample ID: 890-1364-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 01:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 15:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1			9315	10/12/21 23:12	CH	XEN MID

Client Sample ID: C-846

Date Collected: 10/04/21 12:46

Date Received: 10/05/21 15:50

Lab Sample ID: 890-1364-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 01:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 15:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1			9315	10/12/21 23:18	CH	XEN MID

Client Sample ID: C-847

Date Collected: 10/04/21 12:47

Date Received: 10/05/21 15:50

Lab Sample ID: 890-1364-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 01:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 16:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1			9315	10/12/21 23:35	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-848

Lab Sample ID: 890-1364-11

Date Collected: 10/04/21 12:48

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 03:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 16:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1			9315	10/12/21 23:41	CH	XEN MID

Client Sample ID: C-849

Lab Sample ID: 890-1364-12

Date Collected: 10/04/21 14:49

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 03:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 17:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1			9315	10/12/21 23:46	CH	XEN MID

Client Sample ID: C-850

Lab Sample ID: 890-1364-13

Date Collected: 10/04/21 14:50

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 08:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 17:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1			9315	10/12/21 23:52	CH	XEN MID

Client Sample ID: C-851

Lab Sample ID: 890-1364-14

Date Collected: 10/04/21 14:51

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 09:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-851

Lab Sample ID: 890-1364-14

Date Collected: 10/04/21 14:51

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 17:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1			9315	10/12/21 23:57	CH	XEN MID

Client Sample ID: C-852

Lab Sample ID: 890-1364-15

Date Collected: 10/04/21 14:52

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 09:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 18:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1			9315	10/13/21 00:03	CH	XEN MID

Client Sample ID: C-853

Lab Sample ID: 890-1364-16

Date Collected: 10/05/21 14:53

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 09:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1			9315	10/13/21 00:09	CH	XEN MID

Client Sample ID: C-854

Lab Sample ID: 890-1364-17

Date Collected: 10/05/21 14:54

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 10:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 19:02	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-854

Lab Sample ID: 890-1364-17

Date Collected: 10/05/21 14:54

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 09:34	CH	XEN MID

Client Sample ID: C-855

Lab Sample ID: 890-1364-18

Date Collected: 10/05/21 14:55

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 10:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 19:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 09:40	CH	XEN MID

Client Sample ID: C-856

Lab Sample ID: 890-1364-19

Date Collected: 10/05/21 14:56

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 10:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 19:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 09:45	CH	XEN MID

Client Sample ID: C-857

Lab Sample ID: 890-1364-20

Date Collected: 10/05/21 14:57

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9305	10/12/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9391	10/15/21 11:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9398	10/14/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9184	10/11/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9185	10/11/21 20:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 09:51	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-858

Lab Sample ID: 890-1364-21

Date Collected: 10/05/21 14:58

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9108	10/14/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/15/21 16:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9166	10/09/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9180	10/11/21 15:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 10:08	CH	XEN MID

Client Sample ID: C-859

Lab Sample ID: 890-1364-22

Date Collected: 10/05/21 14:59

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9108	10/14/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/15/21 17:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9166	10/09/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9180	10/11/21 16:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 10:13	CH	XEN MID

Client Sample ID: C-860

Lab Sample ID: 890-1364-23

Date Collected: 10/05/21 15:00

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9108	10/14/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/15/21 17:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9166	10/09/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9180	10/11/21 16:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 10:19	CH	XEN MID

Client Sample ID: C-861

Lab Sample ID: 890-1364-24

Date Collected: 10/05/21 15:01

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9108	10/14/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/15/21 18:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-861

Lab Sample ID: 890-1364-24

Date Collected: 10/05/21 15:01

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9166	10/09/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9180	10/11/21 17:13	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 10:25	CH	XEN MID

Client Sample ID: C-862

Lab Sample ID: 890-1364-25

Date Collected: 10/05/21 15:02

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9108	10/14/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/15/21 19:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9166	10/09/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9180	10/11/21 17:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 10:30	CH	XEN MID

Client Sample ID: C-863

Lab Sample ID: 890-1364-26

Date Collected: 10/05/21 15:03

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9108	10/14/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/15/21 19:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9166	10/09/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9180	10/11/21 17:57	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 10:36	CH	XEN MID

Client Sample ID: C-864

Lab Sample ID: 890-1364-27

Date Collected: 10/05/21 15:04

Matrix: Solid

Date Received: 10/05/21 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9108	10/14/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/15/21 19:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9166	10/09/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9180	10/11/21 18:19	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Client Sample ID: C-864**Lab Sample ID: 890-1364-27****Date Collected: 10/05/21 15:04****Matrix: Solid****Date Received: 10/05/21 15:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 10:53	CH	XEN MID

Client Sample ID: C-865**Lab Sample ID: 890-1364-28****Date Collected: 10/05/21 15:05****Matrix: Solid****Date Received: 10/05/21 15:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9108	10/14/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/15/21 20:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9166	10/09/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9180	10/11/21 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 10:58	CH	XEN MID

Client Sample ID: C-866**Lab Sample ID: 890-1364-29****Date Collected: 10/05/21 15:06****Matrix: Solid****Date Received: 10/05/21 15:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9108	10/14/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/15/21 20:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9163	10/09/21 12:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9173	10/10/21 19:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 11:39	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1364-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1364-1	C-838	Solid	10/04/21 12:38	10/05/21 15:50
890-1364-2	C-839	Solid	10/04/21 12:39	10/05/21 15:50
890-1364-3	C-840	Solid	10/04/21 12:40	10/05/21 15:50
890-1364-4	C-841	Solid	10/04/21 12:41	10/05/21 15:50
890-1364-5	C-842	Solid	10/04/21 12:42	10/05/21 15:50
890-1364-6	C-843	Solid	10/04/21 12:43	10/05/21 15:50
890-1364-7	C-844	Solid	10/04/21 12:44	10/05/21 15:50
890-1364-8	C-845	Solid	10/04/21 12:45	10/05/21 15:50
890-1364-9	C-846	Solid	10/04/21 12:46	10/05/21 15:50
890-1364-10	C-847	Solid	10/04/21 12:47	10/05/21 15:50
890-1364-11	C-848	Solid	10/04/21 12:48	10/05/21 15:50
890-1364-12	C-849	Solid	10/04/21 14:49	10/05/21 15:50
890-1364-13	C-850	Solid	10/04/21 14:50	10/05/21 15:50
890-1364-14	C-851	Solid	10/04/21 14:51	10/05/21 15:50
890-1364-15	C-852	Solid	10/04/21 14:52	10/05/21 15:50
890-1364-16	C-853	Solid	10/05/21 14:53	10/05/21 15:50
890-1364-17	C-854	Solid	10/05/21 14:54	10/05/21 15:50
890-1364-18	C-855	Solid	10/05/21 14:55	10/05/21 15:50
890-1364-19	C-856	Solid	10/05/21 14:56	10/05/21 15:50
890-1364-20	C-857	Solid	10/05/21 14:57	10/05/21 15:50
890-1364-21	C-858	Solid	10/05/21 14:58	10/05/21 15:50
890-1364-22	C-859	Solid	10/05/21 14:59	10/05/21 15:50
890-1364-23	C-860	Solid	10/05/21 15:00	10/05/21 15:50
890-1364-24	C-861	Solid	10/05/21 15:01	10/05/21 15:50
890-1364-25	C-862	Solid	10/05/21 15:02	10/05/21 15:50
890-1364-26	C-863	Solid	10/05/21 15:03	10/05/21 15:50
890-1364-27	C-864	Solid	10/05/21 15:04	10/05/21 15:50
890-1364-28	C-865	Solid	10/05/21 15:05	10/05/21 15:50
890-1364-29	C-866	Solid	10/05/21 15:06	10/05/21 15:50

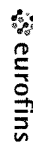
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No. 2113

Eurofins Xenco, Carlsbad

Chain of Custody Record



**Environment Testing
America**

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

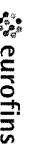
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Eurofins Xenco, Carlsbad

1089 N Canal St.
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Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



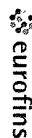
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler		Lab PM		Carrier Tracking No(s)		COC No	
Client Contact: Shipping/Receiving		Phone		Taylor Holly		State of Origin		890-448 2	
Company: Eurofins Xenco		E-Mail: holly.taylor@eurofinset.com		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Page 2 of 4		Job # 890-1364-1	
Address: 1211 W Florida Ave		Due Date Requested: 10/11/2021		Analysis Requested		Preservation Codes		A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amchlor H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA M. Hexane N. None O. AsNaO2 P. Na2CO3 Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecalhydrate U. Acetone V. MCAA W. pH 4.5 Z. other (specify)	
City: Midland		TAT Requested (days)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers	
State Zip: TX 79701		PO #		8015MOD_NM/8015NM_S_Prep (MOD) Full TPH		8015MOD_Calc		300_ORGFMM_28D/DI_LEACH Chloride	
Phone: 432-704-5440(Tel)		WO #		8021B/6036FP_Calc (MOD) BTEX - LL		Total_BTEX_GCV			
Email:		Project #: 89000025							
Project Name: Premio ast		SSOW#							
Site:									
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastefl, B=tissue, A=air)	
C-847 (890-1364-10)		10/4/21		12 48		Solid		X X X X X X	
C-848 (890-1364-11)		10/4/21		14 49		Solid		X X X X X X	
C-849 (890-1364-12)		10/4/21		14 50		Solid		X X X X X X	
C-850 (890-1364-13)		10/4/21		14 51		Solid		X X X X X X	
C-851 (890-1364-14)		10/4/21		14 52		Solid		X X X X X X	
C-852 (890-1364-15)		10/4/21		14 53		Solid		X X X X X X	
C-853 (890-1364-16)		10/5/21		14 54		Solid		X X X X X X	
C-854 (890-1364-17)		10/5/21		14 55		Solid		X X X X X X	
C-855 (890-1364-18)		10/5/21		14 56		Solid		X X X X X X	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testing/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested I II, III IV Other (specify)		Primary Deliverable Rank 2							
Empty Kit Relinquished by		Date		Time		Method of Shipment			
Relinquished by: Dee Cuy		10-5-21 10:00 AM		14:00		Xenoco			
Relinquished by:		Date/Time		Company		Received by:		Date/Time	
Relinquished by:		Date/Time		Company		Received by:		Date/Time	
Custody Seals Intact: A Yes A No		Custody Seal No				Cooler Temperature(s) °C and Other Remarks.			

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NIM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)						Sampler	COC No:
Client Contact: Shipping/Receiving						Lab PM	890-448 3
Company: Eurofins Xenco						E-Mail: Taylor, Holly	Carrier Tracking No(s).
Address: 1211 W Florida Ave						taylor@eurofnset.com	State of Origin
City: TX 79701						New Mexico	Page: Page 3 of 4
Due Date Requested: 10/11/2021						Accreditations Required (See note) NELAP - Louisiana, NELAP - Texas	Job #: 890-1364-1
TAT Requested (days):						Analysis Requested	
Midland	State Zip	TX 79701	PO #	WFO #			
Phone		432-704-5440(Tel)					
Email		Project Name: Premio ast					
		SSOW#					
		Field Filtered Sample (Yes or No)					
		Perform MS/MSD (Yes or No)					
		8015MOD_NM/8015NM_S_Prep (MOD) Full TPH					
		8015MOD_Calc					
		300_ORGFM_28D/DI_LEACH Chloride					
		8021B/6035FP_Calc (MOD) BTEX - LL					
		Total_BTEX_GCV					
		Total Number of containers					
		Special Instructions/Note:					
		Preservation Codes					
		A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Ammonia H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA M. Hexane N. None O. AsNaO2 P. Na2CO3 Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecylhydrate U. Acetone V. MCAA W. pH 4-5 Z. other (specify)					
		Other:					
		Sample Identification - Client ID (Lab ID)					
		Sample Date					
		Sample Time					
		Sample Type (C=comp, G=grab)					
		Matrix (W=water S=solid O=overstall BT=Tissue A=Air)					
		Presentation Code					
		C-856 (890-1364-19)					
		C-857 (890-1364-20)					
		C-858 (890-1364-21)					
		C-859 (890-1364-22)					
		C-860 (890-1364-23)					
		C-861 (890-1364-24)					
		C-862 (890-1364-25)					
		C-863 (890-1364-26)					
		C-864 (890-1364-27)					
		Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
		Possible Hazard Identification					
		Unconfirmed					
		Deliverable Requested I II III IV Other (specify)					
		Primary Deliverable Rank 2					
		Empty Kit Relinquished by					
		Relinquished by					
		Relinquished by					
		Relinquished by					
		Custody Seals Intact					
		Custody Seal No					

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Eurotins Xenco, Carlsbad

Carlsbad, NM 88220

Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins

Environment Testing America

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Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1364-1

SDG Number: 21-0105-02

Login Number: 1364**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1364-1

SDG Number: 21-0105-02

Login Number: 1364**List Number: 2****Creator: Lowe, Katie****List Source: Eurofins Xenco, Midland****List Creation: 10/06/21 02:00 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1365-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/18/2021 5:08:36 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1365-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Job ID: 890-1365-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1365-1

Comments

No additional comments.

Receipt

The samples were received on 10/5/2021 3:47 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9444 and analytical batch 880-9525 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9446 and analytical batch 880-9587 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-910 (890-1365-44), C-917 (890-1365-51), C-918 (890-1365-52) and (890-1365-A-41-H MSD). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9447 and analytical batch 880-9521 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-897 (890-1365-31), C-898 (890-1365-32), C-902 (890-1365-36), C-927 (890-1365-61), C-937 (890-1365-71), C-938 (890-1365-72) and C-939 (890-1365-73). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9166 and analytical batch 880-9180 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B NM: The laboratory control sample (LCS) associated with preparation batch 880-9219 and analytical batch 880-9265 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: C-868 (890-1365-2), C-869 (890-1365-3), C-870 (890-1365-4), C-871 (890-1365-5), C-872 (890-1365-6), C-873 (890-1365-7), C-876 (890-1365-10), C-877 (890-1365-11), C-879 (890-1365-13), C-881 (890-1365-15), C-882 (890-1365-16), C-883 (890-1365-17), C-884 (890-1365-18), (LCS 880-9219/2-A) and (LCS 880-9219/3-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: C-901 (890-1365-35). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: C-922 (890-1365-56) and (MB 880-9273/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Job ID: 890-1365-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-9200 and analytical batch 880-9377 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-867

Lab Sample ID: 890-1365-1

Date Collected: 10/05/21 10:07

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		10/14/21 10:14	10/15/21 15:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 15:23	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		10/14/21 10:14	10/15/21 15:23	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398	mg/Kg		10/14/21 10:14	10/15/21 15:23	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		10/14/21 10:14	10/15/21 15:23	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		10/14/21 10:14	10/15/21 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	10/14/21 10:14	10/15/21 15:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/14/21 10:14	10/15/21 15:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9	mg/Kg		10/11/21 14:30	10/12/21 11:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		10/11/21 14:30	10/12/21 11:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:30	10/12/21 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	10/11/21 14:30	10/12/21 11:41	1
o-Terphenyl	128		70 - 130	10/11/21 14:30	10/12/21 11:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.7		4.96	mg/Kg			10/13/21 00:53	1

Client Sample ID: C-868

Lab Sample ID: 890-1365-2

Date Collected: 10/05/21 10:08

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 15:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 15:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 15:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:14	10/15/21 15:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 15:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:14	10/15/21 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/14/21 10:14	10/15/21 15:44	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/14/21 10:14	10/15/21 15:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-868

Lab Sample ID: 890-1365-2

Date Collected: 10/05/21 10:08

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 12:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 12:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:30	10/12/21 12:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130			10/11/21 14:30	10/12/21 12:47	1
o-Terphenyl	142	S1+	70 - 130			10/11/21 14:30	10/12/21 12:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	366		5.04	mg/Kg			10/13/21 01:11	1

Client Sample ID: C-869

Lab Sample ID: 890-1365-3

Date Collected: 10/05/21 10:09

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:14	10/15/21 16:05	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:14	10/15/21 16:05	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:14	10/15/21 16:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:14	10/15/21 16:05	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:14	10/15/21 16:05	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:14	10/15/21 16:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			10/14/21 10:14	10/15/21 16:05	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/14/21 10:14	10/15/21 16:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		10/11/21 14:30	10/12/21 13:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9	mg/Kg		10/11/21 14:30	10/12/21 13:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-869

Lab Sample ID: 890-1365-3

Date Collected: 10/05/21 10:09

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:30	10/12/21 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			10/11/21 14:30	10/12/21 13:09	1
o-Terphenyl	136	S1+	70 - 130			10/11/21 14:30	10/12/21 13:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	535		4.97	mg/Kg			10/13/21 01:16	1

Client Sample ID: C-870

Lab Sample ID: 890-1365-4

Date Collected: 10/05/21 10:10

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 16:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 16:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 16:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:14	10/15/21 16:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 16:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:14	10/15/21 16:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			10/14/21 10:14	10/15/21 16:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/14/21 10:14	10/15/21 16:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 13:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 13:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:30	10/12/21 13:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130			10/11/21 14:30	10/12/21 13:31	1
o-Terphenyl	136	S1+	70 - 130			10/11/21 14:30	10/12/21 13:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		4.95	mg/Kg			10/13/21 01:22	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-871

Lab Sample ID: 890-1365-5

Date Collected: 10/05/21 10:11

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 16:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 16:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 16:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:14	10/15/21 16:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 16:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:14	10/15/21 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/14/21 10:14	10/15/21 16:47	1
1,4-Difluorobenzene (Surr)	111		70 - 130	10/14/21 10:14	10/15/21 16:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9	mg/Kg		10/11/21 14:30	10/12/21 13:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		10/11/21 14:30	10/12/21 13:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:30	10/12/21 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	10/11/21 14:30	10/12/21 13:53	1
o-Terphenyl	132	S1+	70 - 130	10/11/21 14:30	10/12/21 13:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		5.05	mg/Kg			10/13/21 01:28	1

Client Sample ID: C-872

Lab Sample ID: 890-1365-6

Date Collected: 10/05/21 10:12

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 17:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 17:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 17:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:14	10/15/21 17:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 17:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:14	10/15/21 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/14/21 10:14	10/15/21 17:08	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/14/21 10:14	10/15/21 17:08	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-872

Lab Sample ID: 890-1365-6

Date Collected: 10/05/21 10:12

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0	mg/Kg		10/11/21 14:30	10/12/21 14:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0	mg/Kg		10/11/21 14:30	10/12/21 14:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 14:30	10/12/21 14:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			10/11/21 14:30	10/12/21 14:15	1
o-Terphenyl	131	S1+	70 - 130			10/11/21 14:30	10/12/21 14:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.5		4.98	mg/Kg			10/13/21 01:44	1

Client Sample ID: C-873

Lab Sample ID: 890-1365-7

Date Collected: 10/05/21 10:13

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 17:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 17:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 17:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:14	10/15/21 17:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 17:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:14	10/15/21 17:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			10/14/21 10:14	10/15/21 17:28	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/14/21 10:14	10/15/21 17:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0	mg/Kg		10/11/21 14:30	10/12/21 14:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0	mg/Kg		10/11/21 14:30	10/12/21 14:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-873

Lab Sample ID: 890-1365-7

Date Collected: 10/05/21 10:13

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 14:30	10/12/21 14:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			10/11/21 14:30	10/12/21 14:37	1
o-Terphenyl	136	S1+	70 - 130			10/11/21 14:30	10/12/21 14:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	492		4.99	mg/Kg			10/13/21 01:50	1

Client Sample ID: C-874

Lab Sample ID: 890-1365-8

Date Collected: 10/05/21 10:14

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:14	10/15/21 17:49	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:14	10/15/21 17:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:14	10/15/21 17:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 10:14	10/15/21 17:49	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:14	10/15/21 17:49	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 10:14	10/15/21 17:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			10/14/21 10:14	10/15/21 17:49	1
1,4-Difluorobenzene (Surr)	117		70 - 130			10/14/21 10:14	10/15/21 17:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 14:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 14:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:30	10/12/21 14:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/11/21 14:30	10/12/21 14:59	1
o-Terphenyl	121		70 - 130			10/11/21 14:30	10/12/21 14:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.5		4.99	mg/Kg			10/13/21 01:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-875

Lab Sample ID: 890-1365-9

Date Collected: 10/05/21 10:15

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 18:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 18:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 18:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:14	10/15/21 18:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 18:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:14	10/15/21 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/14/21 10:14	10/15/21 18:10	1
1,4-Difluorobenzene (Surr)	119		70 - 130	10/14/21 10:14	10/15/21 18:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		10/11/21 14:30	10/12/21 15:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9	mg/Kg		10/11/21 14:30	10/12/21 15:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:30	10/12/21 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	10/11/21 14:30	10/12/21 15:21	1
o-Terphenyl	129		70 - 130	10/11/21 14:30	10/12/21 15:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		5.02	mg/Kg			10/13/21 02:01	1

Client Sample ID: C-876

Lab Sample ID: 890-1365-10

Date Collected: 10/05/21 10:16

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 18:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 18:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 18:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:14	10/15/21 18:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 18:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:14	10/15/21 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	10/14/21 10:14	10/15/21 18:31	1
1,4-Difluorobenzene (Surr)	82		70 - 130	10/14/21 10:14	10/15/21 18:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-876

Lab Sample ID: 890-1365-10

Date Collected: 10/05/21 10:16

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 15:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 15:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:30	10/12/21 15:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130			10/11/21 14:30	10/12/21 15:44	1
o-Terphenyl	143	S1+	70 - 130			10/11/21 14:30	10/12/21 15:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		4.98	mg/Kg			10/13/21 02:07	1

Client Sample ID: C-877

Lab Sample ID: 890-1365-11

Date Collected: 10/05/21 10:17

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:14	10/15/21 19:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:14	10/15/21 19:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:14	10/15/21 19:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:14	10/15/21 19:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:14	10/15/21 19:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:14	10/15/21 19:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			10/14/21 10:14	10/15/21 19:54	1
1,4-Difluorobenzene (Surr)	78		70 - 130			10/14/21 10:14	10/15/21 19:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		10/11/21 14:30	10/12/21 16:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9	mg/Kg		10/11/21 14:30	10/12/21 16:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-877

Lab Sample ID: 890-1365-11

Date Collected: 10/05/21 10:17

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:30	10/12/21 16:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130			10/11/21 14:30	10/12/21 16:27	1
o-Terphenyl	159	S1+	70 - 130			10/11/21 14:30	10/12/21 16:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	191		5.00	mg/Kg			10/13/21 02:12	1

Client Sample ID: C-878

Lab Sample ID: 890-1365-12

Date Collected: 10/05/21 10:18

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 20:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 20:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 20:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:14	10/15/21 20:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 20:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:14	10/15/21 20:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			10/14/21 10:14	10/15/21 20:15	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/14/21 10:14	10/15/21 20:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0	mg/Kg		10/11/21 14:30	10/12/21 16:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0	mg/Kg		10/11/21 14:30	10/12/21 16:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 14:30	10/12/21 16:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			10/11/21 14:30	10/12/21 16:49	1
o-Terphenyl	124		70 - 130			10/11/21 14:30	10/12/21 16:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.6		4.95	mg/Kg			10/13/21 02:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-879

Lab Sample ID: 890-1365-13

Date Collected: 10/05/21 10:19

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 20:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 20:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 20:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:14	10/15/21 20:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 20:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:14	10/15/21 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/14/21 10:14	10/15/21 20:36	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/14/21 10:14	10/15/21 20:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		10/11/21 14:30	10/12/21 17:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9	mg/Kg		10/11/21 14:30	10/12/21 17:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:30	10/12/21 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	10/11/21 14:30	10/12/21 17:11	1
o-Terphenyl	135	S1+	70 - 130	10/11/21 14:30	10/12/21 17:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	277		5.04	mg/Kg			10/13/21 02:35	1

Client Sample ID: C-880

Lab Sample ID: 890-1365-14

Date Collected: 10/05/21 10:20

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:14	10/15/21 20:56	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:14	10/15/21 20:56	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:14	10/15/21 20:56	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:14	10/15/21 20:56	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:14	10/15/21 20:56	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:14	10/15/21 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	10/14/21 10:14	10/15/21 20:56	1
1,4-Difluorobenzene (Surr)	117		70 - 130	10/14/21 10:14	10/15/21 20:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-880

Lab Sample ID: 890-1365-14

Date Collected: 10/05/21 10:20

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 18:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 18:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:30	10/12/21 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/11/21 14:30	10/12/21 18:40	1
o-Terphenyl	123		70 - 130			10/11/21 14:30	10/12/21 18:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	648		4.97	mg/Kg			10/13/21 02:52	1

Client Sample ID: C-881

Lab Sample ID: 890-1365-15

Date Collected: 10/05/21 10:21

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 21:17	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 21:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 21:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:14	10/15/21 21:17	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 21:17	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:14	10/15/21 21:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/14/21 10:14	10/15/21 21:17	1
1,4-Difluorobenzene (Surr)	116		70 - 130			10/14/21 10:14	10/15/21 21:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0	mg/Kg		10/11/21 14:30	10/12/21 19:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0	mg/Kg		10/11/21 14:30	10/12/21 19:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-881

Lab Sample ID: 890-1365-15

Date Collected: 10/05/21 10:21

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 14:30	10/12/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			10/11/21 14:30	10/12/21 19:01	1
o-Terphenyl	135	S1+	70 - 130			10/11/21 14:30	10/12/21 19:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.1		4.98	mg/Kg			10/13/21 02:57	1

Client Sample ID: C-882

Lab Sample ID: 890-1365-16

Date Collected: 10/05/21 10:22

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:14	10/15/21 21:38	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:14	10/15/21 21:38	1
Ethylbenzene	0.0139		0.00198	mg/Kg		10/14/21 10:14	10/15/21 21:38	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/14/21 10:14	10/15/21 21:38	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:14	10/15/21 21:38	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/14/21 10:14	10/15/21 21:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			10/14/21 10:14	10/15/21 21:38	1
1,4-Difluorobenzene (Surr)	114		70 - 130			10/14/21 10:14	10/15/21 21:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0139		0.00397	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9	mg/Kg		10/11/21 14:30	10/12/21 19:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		10/11/21 14:30	10/12/21 19:22	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:30	10/12/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130			10/11/21 14:30	10/12/21 19:22	1
o-Terphenyl	150	S1+	70 - 130			10/11/21 14:30	10/12/21 19:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.0		4.95	mg/Kg			10/13/21 03:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-883

Lab Sample ID: 890-1365-17

Date Collected: 10/05/21 10:23

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 21:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 21:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 21:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:14	10/15/21 21:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 21:59	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:14	10/15/21 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/14/21 10:14	10/15/21 21:59	1
1,4-Difluorobenzene (Surr)	78		70 - 130	10/14/21 10:14	10/15/21 21:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 19:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 19:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:30	10/12/21 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	10/11/21 14:30	10/12/21 19:44	1
o-Terphenyl	132	S1+	70 - 130	10/11/21 14:30	10/12/21 19:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1190		4.95	mg/Kg			10/13/21 03:09	1

Client Sample ID: C-884

Lab Sample ID: 890-1365-18

Date Collected: 10/05/21 10:24

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:14	10/15/21 22:20	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:14	10/15/21 22:20	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:14	10/15/21 22:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 10:14	10/15/21 22:20	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:14	10/15/21 22:20	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 10:14	10/15/21 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/14/21 10:14	10/15/21 22:20	1
1,4-Difluorobenzene (Surr)	109		70 - 130	10/14/21 10:14	10/15/21 22:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-884

Lab Sample ID: 890-1365-18

Date Collected: 10/05/21 10:24

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 20:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8	mg/Kg		10/11/21 14:30	10/12/21 20:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:30	10/12/21 20:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130			10/11/21 14:30	10/12/21 20:05	1
o-Terphenyl	148	S1+	70 - 130			10/11/21 14:30	10/12/21 20:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		4.96	mg/Kg			10/13/21 03:14	1

Client Sample ID: C-885

Lab Sample ID: 890-1365-19

Date Collected: 10/05/21 10:25

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:14	10/15/21 22:41	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:14	10/15/21 22:41	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:14	10/15/21 22:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 10:14	10/15/21 22:41	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:14	10/15/21 22:41	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 10:14	10/15/21 22:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			10/14/21 10:14	10/15/21 22:41	1
1,4-Difluorobenzene (Surr)	79		70 - 130			10/14/21 10:14	10/15/21 22:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0	mg/Kg		10/11/21 14:30	10/12/21 20:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0	mg/Kg		10/11/21 14:30	10/12/21 20:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-885

Lab Sample ID: 890-1365-19

Date Collected: 10/05/21 10:25

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 14:30	10/12/21 20:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/11/21 14:30	10/12/21 20:26	1
o-Terphenyl	107		70 - 130			10/11/21 14:30	10/12/21 20:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630		5.05	mg/Kg			10/13/21 03:20	1

Client Sample ID: C-886

Lab Sample ID: 890-1365-20

Date Collected: 10/05/21 10:26

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 23:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 23:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 23:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:14	10/15/21 23:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:14	10/15/21 23:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:14	10/15/21 23:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/14/21 10:14	10/15/21 23:01	1
1,4-Difluorobenzene (Surr)	114		70 - 130			10/14/21 10:14	10/15/21 23:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		10/11/21 14:30	10/12/21 20:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9	mg/Kg		10/11/21 14:30	10/12/21 20:48	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:30	10/12/21 20:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			10/11/21 14:30	10/12/21 20:48	1
o-Terphenyl	127		70 - 130			10/11/21 14:30	10/12/21 20:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		4.98	mg/Kg			10/13/21 03:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-887

Lab Sample ID: 890-1365-21

Date Collected: 10/05/21 10:27

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		10/14/21 10:18	10/16/21 01:22	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		10/14/21 10:18	10/16/21 01:22	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		10/14/21 10:18	10/16/21 01:22	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398	mg/Kg		10/14/21 10:18	10/16/21 01:22	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		10/14/21 10:18	10/16/21 01:22	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		10/14/21 10:18	10/16/21 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	10/14/21 10:18	10/16/21 01:22	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/14/21 10:18	10/16/21 01:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 11:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 11:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	10/11/21 14:45	10/12/21 11:41	1
o-Terphenyl	107		70 - 130	10/11/21 14:45	10/12/21 11:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	373		4.96	mg/Kg			10/13/21 11:45	1

Client Sample ID: C-888

Lab Sample ID: 890-1365-22

Date Collected: 10/05/21 10:28

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:18	10/16/21 01:43	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:18	10/16/21 01:43	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:18	10/16/21 01:43	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:18	10/16/21 01:43	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:18	10/16/21 01:43	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:18	10/16/21 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/14/21 10:18	10/16/21 01:43	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/14/21 10:18	10/16/21 01:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-888

Lab Sample ID: 890-1365-22

Date Collected: 10/05/21 10:28

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 12:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 12:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 12:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/11/21 14:45	10/12/21 12:47	1
o-Terphenyl	108		70 - 130			10/11/21 14:45	10/12/21 12:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.7		4.95	mg/Kg			10/13/21 11:50	1

Client Sample ID: C-889

Lab Sample ID: 890-1365-23

Date Collected: 10/05/21 10:29

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 02:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 02:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 02:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:18	10/16/21 02:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 02:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:18	10/16/21 02:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			10/14/21 10:18	10/16/21 02:03	1
1,4-Difluorobenzene (Surr)	97		70 - 130			10/14/21 10:18	10/16/21 02:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 13:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 13:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-889

Lab Sample ID: 890-1365-23

Date Collected: 10/05/21 10:29

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/11/21 14:45	10/12/21 13:09	1
o-Terphenyl	112		70 - 130			10/11/21 14:45	10/12/21 13:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.3		4.95	mg/Kg			10/13/21 11:56	1

Client Sample ID: C-890

Lab Sample ID: 890-1365-24

Date Collected: 10/05/21 10:30

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 02:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 02:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 02:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:18	10/16/21 02:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 02:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:18	10/16/21 02:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			10/14/21 10:18	10/16/21 02:24	1
1,4-Difluorobenzene (Surr)	98		70 - 130			10/14/21 10:18	10/16/21 02:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 13:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 13:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 13:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/11/21 14:45	10/12/21 13:31	1
o-Terphenyl	102		70 - 130			10/11/21 14:45	10/12/21 13:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	251		5.02	mg/Kg			10/13/21 12:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-891

Lab Sample ID: 890-1365-25

Date Collected: 10/05/21 10:31

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 02:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 02:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 02:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:18	10/16/21 02:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 02:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:18	10/16/21 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/14/21 10:18	10/16/21 02:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/14/21 10:18	10/16/21 02:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 13:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 13:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	10/11/21 14:45	10/12/21 13:53	1
o-Terphenyl	99		70 - 130	10/11/21 14:45	10/12/21 13:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1380		4.97	mg/Kg			10/13/21 12:07	1

Client Sample ID: C-892

Lab Sample ID: 890-1365-26

Date Collected: 10/05/21 10:32

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:18	10/16/21 03:05	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:18	10/16/21 03:05	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:18	10/16/21 03:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 10:18	10/16/21 03:05	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:18	10/16/21 03:05	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 10:18	10/16/21 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	10/14/21 10:18	10/16/21 03:05	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/14/21 10:18	10/16/21 03:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-892

Lab Sample ID: 890-1365-26

Date Collected: 10/05/21 10:32

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 14:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 14:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 14:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			10/11/21 14:45	10/12/21 14:15	1
o-Terphenyl	97		70 - 130			10/11/21 14:45	10/12/21 14:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.9		4.98	mg/Kg			10/13/21 12:13	1

Client Sample ID: C-893

Lab Sample ID: 890-1365-27

Date Collected: 10/05/21 10:33

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 03:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 03:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 03:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:18	10/16/21 03:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 03:26	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:18	10/16/21 03:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			10/14/21 10:18	10/16/21 03:26	1
1,4-Difluorobenzene (Surr)	91		70 - 130			10/14/21 10:18	10/16/21 03:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 14:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 14:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-893

Lab Sample ID: 890-1365-27

Date Collected: 10/05/21 10:33

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 14:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/11/21 14:45	10/12/21 14:37	1
o-Terphenyl	103		70 - 130			10/11/21 14:45	10/12/21 14:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	467		4.97	mg/Kg			10/13/21 14:05	1

Client Sample ID: C-894

Lab Sample ID: 890-1365-28

Date Collected: 10/05/21 10:34

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 03:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 03:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 03:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:18	10/16/21 03:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 03:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:18	10/16/21 03:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			10/14/21 10:18	10/16/21 03:46	1
1,4-Difluorobenzene (Surr)	88		70 - 130			10/14/21 10:18	10/16/21 03:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 14:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 14:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 14:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			10/11/21 14:45	10/12/21 14:59	1
o-Terphenyl	113		70 - 130			10/11/21 14:45	10/12/21 14:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1470		4.95	mg/Kg			10/13/21 14:11	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-895

Lab Sample ID: 890-1365-29

Date Collected: 10/05/21 10:35

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:18	10/16/21 04:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:18	10/16/21 04:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:18	10/16/21 04:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:18	10/16/21 04:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:18	10/16/21 04:07	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:18	10/16/21 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/14/21 10:18	10/16/21 04:07	1
1,4-Difluorobenzene (Surr)	89		70 - 130	10/14/21 10:18	10/16/21 04:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 15:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 15:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	10/11/21 14:45	10/12/21 15:21	1
o-Terphenyl	113		70 - 130	10/11/21 14:45	10/12/21 15:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1490		25.0	mg/Kg			10/13/21 14:16	5

Client Sample ID: C-896

Lab Sample ID: 890-1365-30

Date Collected: 10/05/21 10:36

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:18	10/16/21 04:27	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:18	10/16/21 04:27	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:18	10/16/21 04:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:18	10/16/21 04:27	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:18	10/16/21 04:27	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:18	10/16/21 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	10/14/21 10:18	10/16/21 04:27	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/14/21 10:18	10/16/21 04:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-896

Lab Sample ID: 890-1365-30

Date Collected: 10/05/21 10:36

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 15:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 15:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 15:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			10/11/21 14:45	10/12/21 15:44	1
o-Terphenyl	96		70 - 130			10/11/21 14:45	10/12/21 15:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1660		24.9	mg/Kg			10/13/21 14:33	5

Client Sample ID: C-897

Lab Sample ID: 890-1365-31

Date Collected: 10/05/21 10:37

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 05:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 05:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 05:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:18	10/16/21 05:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 05:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:18	10/16/21 05:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			10/14/21 10:18	10/16/21 05:49	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/14/21 10:18	10/16/21 05:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 16:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 16:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-897

Lab Sample ID: 890-1365-31

Date Collected: 10/05/21 10:37

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 16:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			10/11/21 14:45	10/12/21 16:27	1
o-Terphenyl	120		70 - 130			10/11/21 14:45	10/12/21 16:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		4.98	mg/Kg			10/13/21 14:39	1

Client Sample ID: C-898

Lab Sample ID: 890-1365-32

Date Collected: 10/05/21 10:38

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 06:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 06:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 06:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:18	10/16/21 06:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 06:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:18	10/16/21 06:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			10/14/21 10:18	10/16/21 06:10	1
1,4-Difluorobenzene (Surr)	95		70 - 130			10/14/21 10:18	10/16/21 06:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 16:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 16:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 16:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/11/21 14:45	10/12/21 16:49	1
o-Terphenyl	104		70 - 130			10/11/21 14:45	10/12/21 16:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	800		4.97	mg/Kg			10/13/21 14:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-899

Lab Sample ID: 890-1365-33

Date Collected: 10/05/21 10:39

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 06:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 06:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 06:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:18	10/16/21 06:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 06:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:18	10/16/21 06:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	10/14/21 10:18	10/16/21 06:30	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/14/21 10:18	10/16/21 06:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 17:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 17:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	10/11/21 14:45	10/12/21 17:11	1
o-Terphenyl	96		70 - 130	10/11/21 14:45	10/12/21 17:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	808		5.00	mg/Kg			10/13/21 15:01	1

Client Sample ID: C-900

Lab Sample ID: 890-1365-34

Date Collected: 10/05/21 10:40

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 06:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 06:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 06:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:18	10/16/21 06:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 06:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:18	10/16/21 06:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	10/14/21 10:18	10/16/21 06:51	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/14/21 10:18	10/16/21 06:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-900

Lab Sample ID: 890-1365-34

Date Collected: 10/05/21 10:40

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.5		49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 18:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 18:40	1
Oil Range Organics (Over C28-C36)	58.5		49.8	mg/Kg		10/11/21 14:45	10/12/21 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/11/21 14:45	10/12/21 18:40	1
o-Terphenyl	114		70 - 130			10/11/21 14:45	10/12/21 18:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.7		5.04	mg/Kg			10/13/21 15:07	1

Client Sample ID: C-901

Lab Sample ID: 890-1365-35

Date Collected: 10/05/21 10:41

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 07:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 07:11	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 07:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:18	10/16/21 07:11	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 07:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:18	10/16/21 07:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			10/14/21 10:18	10/16/21 07:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130			10/14/21 10:18	10/16/21 07:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 19:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-901

Lab Sample ID: 890-1365-35

Date Collected: 10/05/21 10:41

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 19:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130			10/11/21 14:45	10/12/21 19:01	1
o-Terphenyl	132	S1+	70 - 130			10/11/21 14:45	10/12/21 19:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		4.95	mg/Kg			10/13/21 15:13	1

Client Sample ID: C-902

Lab Sample ID: 890-1365-36

Date Collected: 10/05/21 10:42

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 07:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 07:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 07:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:18	10/16/21 07:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 07:31	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:18	10/16/21 07:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130			10/14/21 10:18	10/16/21 07:31	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/14/21 10:18	10/16/21 07:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 19:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 19:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/11/21 14:45	10/12/21 19:22	1
o-Terphenyl	116		70 - 130			10/11/21 14:45	10/12/21 19:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		5.02	mg/Kg			10/13/21 15:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-903

Lab Sample ID: 890-1365-37

Date Collected: 10/05/21 10:43

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:18	10/16/21 07:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:18	10/16/21 07:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:18	10/16/21 07:52	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 10:18	10/16/21 07:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:18	10/16/21 07:52	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 10:18	10/16/21 07:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	10/14/21 10:18	10/16/21 07:52	1
1,4-Difluorobenzene (Surr)	95		70 - 130	10/14/21 10:18	10/16/21 07:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 19:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 19:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	10/11/21 14:45	10/12/21 19:44	1
o-Terphenyl	116		70 - 130	10/11/21 14:45	10/12/21 19:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		4.97	mg/Kg			10/13/21 15:24	1

Client Sample ID: C-904

Lab Sample ID: 890-1365-38

Date Collected: 10/05/21 14:34

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 08:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 08:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 08:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:18	10/16/21 08:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 08:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:18	10/16/21 08:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	10/14/21 10:18	10/16/21 08:12	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/14/21 10:18	10/16/21 08:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-904

Lab Sample ID: 890-1365-38

Date Collected: 10/05/21 14:34

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 20:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 20:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/21 14:45	10/12/21 20:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			10/11/21 14:45	10/12/21 20:05	1
o-Terphenyl	100		70 - 130			10/11/21 14:45	10/12/21 20:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.8		5.04	mg/Kg			10/13/21 15:29	1

Client Sample ID: C-905

Lab Sample ID: 890-1365-39

Date Collected: 10/05/21 14:35

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 08:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 08:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 08:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:18	10/16/21 08:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:18	10/16/21 08:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:18	10/16/21 08:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			10/14/21 10:18	10/16/21 08:33	1
1,4-Difluorobenzene (Surr)	90		70 - 130			10/14/21 10:18	10/16/21 08:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 20:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 20:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-905

Lab Sample ID: 890-1365-39

Date Collected: 10/05/21 14:35

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 20:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/11/21 14:45	10/12/21 20:26	1
o-Terphenyl	93		70 - 130			10/11/21 14:45	10/12/21 20:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.4		4.98	mg/Kg			10/13/21 21:31	1

Client Sample ID: C-906

Lab Sample ID: 890-1365-40

Date Collected: 10/05/21 14:36

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 08:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 08:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 08:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:18	10/16/21 08:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 08:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:18	10/16/21 08:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			10/14/21 10:18	10/16/21 08:53	1
1,4-Difluorobenzene (Surr)	92		70 - 130			10/14/21 10:18	10/16/21 08:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 20:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 20:48	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 14:45	10/12/21 20:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			10/11/21 14:45	10/12/21 20:48	1
o-Terphenyl	95		70 - 130			10/11/21 14:45	10/12/21 20:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.6		5.00	mg/Kg			10/13/21 21:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-907

Lab Sample ID: 890-1365-41

Date Collected: 10/05/21 14:37

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1 F2	0.00201	mg/Kg		10/14/21 10:20	10/16/21 15:35	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 15:35	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 15:35	1
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.00402	mg/Kg		10/14/21 10:20	10/16/21 15:35	1
o-Xylene	<0.00201	U F1	0.00201	mg/Kg		10/14/21 10:20	10/16/21 15:35	1
Xylenes, Total	<0.00402	U F1 F2	0.00402	mg/Kg		10/14/21 10:20	10/16/21 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/14/21 10:20	10/16/21 15:35	1
1,4-Difluorobenzene (Surr)	114		70 - 130	10/14/21 10:20	10/16/21 15:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/13/21 21:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/13/21 21:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/13/21 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	10/12/21 08:53	10/13/21 21:05	1
o-Terphenyl	117		70 - 130	10/12/21 08:53	10/13/21 21:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.2		4.95	mg/Kg			10/13/21 21:46	1

Client Sample ID: C-908

Lab Sample ID: 890-1365-42

Date Collected: 10/05/21 14:38

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 15:56	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 15:56	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 15:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:20	10/16/21 15:56	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 15:56	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:20	10/16/21 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	10/14/21 10:20	10/16/21 15:56	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/14/21 10:20	10/16/21 15:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-908

Lab Sample ID: 890-1365-42

Date Collected: 10/05/21 14:38

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/13/21 22:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/13/21 22:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/13/21 22:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/12/21 08:53	10/13/21 22:09	1
o-Terphenyl	124		70 - 130			10/12/21 08:53	10/13/21 22:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		25.2	mg/Kg			10/13/21 22:07	5

Client Sample ID: C-909

Lab Sample ID: 890-1365-43

Date Collected: 10/05/21 14:39

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 16:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 16:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 16:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:20	10/16/21 16:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 16:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:20	10/16/21 16:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			10/14/21 10:20	10/16/21 16:16	1
1,4-Difluorobenzene (Surr)	81		70 - 130			10/14/21 10:20	10/16/21 16:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/13/21 22:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/13/21 22:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-909

Lab Sample ID: 890-1365-43

Date Collected: 10/05/21 14:39

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/13/21 22:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/12/21 08:53	10/13/21 22:31	1
o-Terphenyl	124		70 - 130			10/12/21 08:53	10/13/21 22:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	352		4.97	mg/Kg			10/13/21 22:15	1

Client Sample ID: C-910

Lab Sample ID: 890-1365-44

Date Collected: 10/05/21 14:40

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:20	10/16/21 16:37	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:20	10/16/21 16:37	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:20	10/16/21 16:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:20	10/16/21 16:37	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:20	10/16/21 16:37	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:20	10/16/21 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130			10/14/21 10:20	10/16/21 16:37	1
1,4-Difluorobenzene (Surr)	113		70 - 130			10/14/21 10:20	10/16/21 16:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/13/21 22:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/13/21 22:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/13/21 22:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			10/12/21 08:53	10/13/21 22:52	1
o-Terphenyl	127		70 - 130			10/12/21 08:53	10/13/21 22:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4310		24.8	mg/Kg			10/13/21 22:36	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-911

Lab Sample ID: 890-1365-45

Date Collected: 10/05/21 14:41

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 16:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 16:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 16:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:20	10/16/21 16:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 16:58	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:20	10/16/21 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/14/21 10:20	10/16/21 16:58	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/14/21 10:20	10/16/21 16:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/13/21 23:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/13/21 23:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/13/21 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	10/12/21 08:53	10/13/21 23:14	1
o-Terphenyl	126		70 - 130	10/12/21 08:53	10/13/21 23:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.2		4.95	mg/Kg			10/13/21 22:43	1

Client Sample ID: C-912

Lab Sample ID: 890-1365-46

Date Collected: 10/05/21 14:42

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 17:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 17:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 17:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:20	10/16/21 17:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 17:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:20	10/16/21 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/14/21 10:20	10/16/21 17:18	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/14/21 10:20	10/16/21 17:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-912

Lab Sample ID: 890-1365-46

Date Collected: 10/05/21 14:42

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/13/21 23:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/13/21 23:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/13/21 23:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/12/21 08:53	10/13/21 23:35	1
o-Terphenyl	123		70 - 130			10/12/21 08:53	10/13/21 23:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		4.95	mg/Kg			10/13/21 22:50	1

Client Sample ID: C-913

Lab Sample ID: 890-1365-47

Date Collected: 10/05/21 14:43

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 17:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 17:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 17:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:20	10/16/21 17:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 17:39	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:20	10/16/21 17:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			10/14/21 10:20	10/16/21 17:39	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/14/21 10:20	10/16/21 17:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/13/21 23:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/13/21 23:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-913

Lab Sample ID: 890-1365-47

Date Collected: 10/05/21 14:43

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/13/21 23:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/12/21 08:53	10/13/21 23:56	1
o-Terphenyl	118		70 - 130			10/12/21 08:53	10/13/21 23:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.8		5.00	mg/Kg			10/13/21 22:57	1

Client Sample ID: C-914

Lab Sample ID: 890-1365-48

Date Collected: 10/05/21 14:44

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 18:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 18:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 18:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:20	10/16/21 18:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 18:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:20	10/16/21 18:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			10/14/21 10:20	10/16/21 18:00	1
1,4-Difluorobenzene (Surr)	120		70 - 130			10/14/21 10:20	10/16/21 18:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 00:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 00:18	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 00:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/12/21 08:53	10/14/21 00:18	1
o-Terphenyl	126		70 - 130			10/12/21 08:53	10/14/21 00:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	265		5.00	mg/Kg			10/13/21 16:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-915

Lab Sample ID: 890-1365-49

Date Collected: 10/05/21 11:45

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:20	10/16/21 18:20	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:20	10/16/21 18:20	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:20	10/16/21 18:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:20	10/16/21 18:20	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:20	10/16/21 18:20	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:20	10/16/21 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/14/21 10:20	10/16/21 18:20	1
1,4-Difluorobenzene (Surr)	113		70 - 130	10/14/21 10:20	10/16/21 18:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 00:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 00:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	10/12/21 08:53	10/14/21 00:39	1
o-Terphenyl	122		70 - 130	10/12/21 08:53	10/14/21 00:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.0		4.95	mg/Kg			10/13/21 16:53	1

Client Sample ID: C-916

Lab Sample ID: 890-1365-50

Date Collected: 10/05/21 11:46

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 18:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 18:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 18:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:20	10/16/21 18:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 18:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:20	10/16/21 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	10/14/21 10:20	10/16/21 18:41	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/14/21 10:20	10/16/21 18:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-916

Lab Sample ID: 890-1365-50

Date Collected: 10/05/21 11:46

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 01:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 01:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/12/21 08:53	10/14/21 01:00	1
o-Terphenyl	123		70 - 130			10/12/21 08:53	10/14/21 01:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.9		4.98	mg/Kg			10/13/21 16:58	1

Client Sample ID: C-917

Lab Sample ID: 890-1365-51

Date Collected: 10/05/21 11:47

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:20	10/16/21 20:03	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:20	10/16/21 20:03	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:20	10/16/21 20:03	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 10:20	10/16/21 20:03	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:20	10/16/21 20:03	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 10:20	10/16/21 20:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	198	S1+	70 - 130			10/14/21 10:20	10/16/21 20:03	1
1,4-Difluorobenzene (Surr)	90		70 - 130			10/14/21 10:20	10/16/21 20:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 01:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 01:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-917

Lab Sample ID: 890-1365-51

Date Collected: 10/05/21 11:47

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 01:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/12/21 08:53	10/14/21 01:42	1
o-Terphenyl	121		70 - 130			10/12/21 08:53	10/14/21 01:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.2		5.05	mg/Kg			10/13/21 17:04	1

Client Sample ID: C-918

Lab Sample ID: 890-1365-52

Date Collected: 10/05/21 11:48

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 20:24	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 20:24	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 20:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:20	10/16/21 20:24	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 20:24	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:20	10/16/21 20:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			10/14/21 10:20	10/16/21 20:24	1
1,4-Difluorobenzene (Surr)	155	S1+	70 - 130			10/14/21 10:20	10/16/21 20:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/14/21 02:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/14/21 02:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/14/21 02:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/12/21 08:53	10/14/21 02:03	1
o-Terphenyl	119		70 - 130			10/12/21 08:53	10/14/21 02:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.6		4.95	mg/Kg			10/13/21 17:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-919

Lab Sample ID: 890-1365-53

Date Collected: 10/05/21 11:49

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 20:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 20:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 20:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:20	10/16/21 20:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 20:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:20	10/16/21 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/14/21 10:20	10/16/21 20:44	1
1,4-Difluorobenzene (Surr)	113		70 - 130	10/14/21 10:20	10/16/21 20:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 02:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 02:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	10/12/21 08:53	10/14/21 02:24	1
o-Terphenyl	120		70 - 130	10/12/21 08:53	10/14/21 02:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	828		5.04	mg/Kg			10/13/21 17:26	1

Client Sample ID: C-920

Lab Sample ID: 890-1365-54

Date Collected: 10/05/21 11:50

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 21:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 21:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 21:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:20	10/16/21 21:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:20	10/16/21 21:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:20	10/16/21 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	10/14/21 10:20	10/16/21 21:05	1
1,4-Difluorobenzene (Surr)	75		70 - 130	10/14/21 10:20	10/16/21 21:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-920

Lab Sample ID: 890-1365-54

Date Collected: 10/05/21 11:50

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 02:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 02:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 02:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/12/21 08:53	10/14/21 02:45	1
o-Terphenyl	119		70 - 130			10/12/21 08:53	10/14/21 02:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.4		4.97	mg/Kg			10/13/21 17:32	1

Client Sample ID: C-921

Lab Sample ID: 890-1365-55

Date Collected: 10/05/21 11:51

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 21:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 21:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 21:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:20	10/16/21 21:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 21:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:20	10/16/21 21:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			10/14/21 10:20	10/16/21 21:25	1
1,4-Difluorobenzene (Surr)	114		70 - 130			10/14/21 10:20	10/16/21 21:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/14/21 03:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/14/21 03:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-921

Lab Sample ID: 890-1365-55

Date Collected: 10/05/21 11:51

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/14/21 03:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			10/12/21 08:53	10/14/21 03:06	1
o-Terphenyl	130		70 - 130			10/12/21 08:53	10/14/21 03:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	262		4.98	mg/Kg			10/13/21 17:38	1

Client Sample ID: C-922

Lab Sample ID: 890-1365-56

Date Collected: 10/05/21 11:52

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 21:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 21:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 21:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:20	10/16/21 21:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 21:46	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:20	10/16/21 21:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			10/14/21 10:20	10/16/21 21:46	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/14/21 10:20	10/16/21 21:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 03:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 03:27	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 03:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130			10/12/21 08:53	10/14/21 03:27	1
o-Terphenyl	141	S1+	70 - 130			10/12/21 08:53	10/14/21 03:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		4.99	mg/Kg			10/13/21 17:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-923

Lab Sample ID: 890-1365-57

Date Collected: 10/05/21 11:53

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 22:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 22:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 22:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:20	10/16/21 22:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 22:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:20	10/16/21 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/14/21 10:20	10/16/21 22:07	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/14/21 10:20	10/16/21 22:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 03:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 03:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	10/12/21 08:53	10/14/21 03:48	1
o-Terphenyl	126		70 - 130	10/12/21 08:53	10/14/21 03:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.3		4.95	mg/Kg			10/13/21 17:49	1

Client Sample ID: C-924

Lab Sample ID: 890-1365-58

Date Collected: 10/05/21 11:54

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:20	10/16/21 22:27	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:20	10/16/21 22:27	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:20	10/16/21 22:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:20	10/16/21 22:27	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:20	10/16/21 22:27	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:20	10/16/21 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/14/21 10:20	10/16/21 22:27	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/14/21 10:20	10/16/21 22:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-924

Lab Sample ID: 890-1365-58

Date Collected: 10/05/21 11:54

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 04:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 04:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 08:53	10/14/21 04:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			10/12/21 08:53	10/14/21 04:10	1
o-Terphenyl	129		70 - 130			10/12/21 08:53	10/14/21 04:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		5.04	mg/Kg			10/13/21 17:54	1

Client Sample ID: C-925

Lab Sample ID: 890-1365-59

Date Collected: 10/05/21 11:55

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 22:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 22:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 22:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:20	10/16/21 22:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:20	10/16/21 22:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:20	10/16/21 22:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			10/14/21 10:20	10/16/21 22:48	1
1,4-Difluorobenzene (Surr)	91		70 - 130			10/14/21 10:20	10/16/21 22:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/14/21 04:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/14/21 04:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-925

Lab Sample ID: 890-1365-59

Date Collected: 10/05/21 11:55

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/14/21 04:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/12/21 08:53	10/14/21 04:31	1
o-Terphenyl	126		70 - 130			10/12/21 08:53	10/14/21 04:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		4.95	mg/Kg			10/13/21 18:11	1

Client Sample ID: C-926

Lab Sample ID: 890-1365-60

Date Collected: 10/05/21 11:56

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 23:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 23:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 23:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:20	10/16/21 23:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 23:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:20	10/16/21 23:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/14/21 10:20	10/16/21 23:09	1
1,4-Difluorobenzene (Surr)	110		70 - 130			10/14/21 10:20	10/16/21 23:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 04:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 04:52	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 08:53	10/14/21 04:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/12/21 08:53	10/14/21 04:52	1
o-Terphenyl	125		70 - 130			10/12/21 08:53	10/14/21 04:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	722		5.04	mg/Kg			10/13/21 18:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-927

Lab Sample ID: 890-1365-61

Date Collected: 10/05/21 11:57

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		10/14/21 10:23	10/16/21 12:53	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		10/14/21 10:23	10/16/21 12:53	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		10/14/21 10:23	10/16/21 12:53	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398	mg/Kg		10/14/21 10:23	10/16/21 12:53	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		10/14/21 10:23	10/16/21 12:53	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		10/14/21 10:23	10/16/21 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	10/14/21 10:23	10/16/21 12:53	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	10/14/21 10:23	10/16/21 12:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/13/21 21:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/13/21 21:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/13/21 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	10/12/21 09:15	10/13/21 21:05	1
o-Terphenyl	108		70 - 130	10/12/21 09:15	10/13/21 21:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	374		4.97	mg/Kg			10/13/21 18:34	1

Client Sample ID: C-928

Lab Sample ID: 890-1365-62

Date Collected: 10/05/21 11:58

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 13:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 13:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 13:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:23	10/16/21 13:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 13:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:23	10/16/21 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	10/14/21 10:23	10/16/21 13:14	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/14/21 10:23	10/16/21 13:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-928

Lab Sample ID: 890-1365-62

Date Collected: 10/05/21 11:58

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/13/21 22:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/13/21 22:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/13/21 22:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/12/21 09:15	10/13/21 22:09	1
o-Terphenyl	110		70 - 130			10/12/21 09:15	10/13/21 22:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	212		4.95	mg/Kg			10/13/21 18:39	1

Client Sample ID: C-929

Lab Sample ID: 890-1365-63

Date Collected: 10/05/21 11:59

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 13:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 13:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 13:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:23	10/16/21 13:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 13:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:23	10/16/21 13:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/14/21 10:23	10/16/21 13:34	1
1,4-Difluorobenzene (Surr)	76		70 - 130			10/14/21 10:23	10/16/21 13:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/13/21 22:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/13/21 22:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-929

Lab Sample ID: 890-1365-63

Date Collected: 10/05/21 11:59

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/13/21 22:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/12/21 09:15	10/13/21 22:31	1
o-Terphenyl	117		70 - 130			10/12/21 09:15	10/13/21 22:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	266		4.98	mg/Kg			10/13/21 18:45	1

Client Sample ID: C-930

Lab Sample ID: 890-1365-64

Date Collected: 10/05/21 12:00

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 13:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 13:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 13:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:23	10/16/21 13:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 13:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:23	10/16/21 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			10/14/21 10:23	10/16/21 13:55	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/14/21 10:23	10/16/21 13:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/13/21 22:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/13/21 22:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/13/21 22:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/12/21 09:15	10/13/21 22:52	1
o-Terphenyl	114		70 - 130			10/12/21 09:15	10/13/21 22:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.6		5.00	mg/Kg			10/13/21 18:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-931

Lab Sample ID: 890-1365-65

Date Collected: 10/05/21 12:01

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 14:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 14:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 14:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:23	10/16/21 14:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 14:15	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:23	10/16/21 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	10/14/21 10:23	10/16/21 14:15	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/14/21 10:23	10/16/21 14:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/13/21 23:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/13/21 23:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/13/21 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	10/12/21 09:15	10/13/21 23:14	1
o-Terphenyl	115		70 - 130	10/12/21 09:15	10/13/21 23:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.5		5.00	mg/Kg			10/13/21 18:56	1

Client Sample ID: C-932

Lab Sample ID: 890-1365-66

Date Collected: 10/05/21 12:02

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:23	10/16/21 14:36	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:23	10/16/21 14:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:23	10/16/21 14:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 10:23	10/16/21 14:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:23	10/16/21 14:36	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 10:23	10/16/21 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	10/14/21 10:23	10/16/21 14:36	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/14/21 10:23	10/16/21 14:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-932

Lab Sample ID: 890-1365-66

Date Collected: 10/05/21 12:02

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 09:15	10/13/21 23:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 09:15	10/13/21 23:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 09:15	10/13/21 23:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/12/21 09:15	10/13/21 23:35	1
o-Terphenyl	126		70 - 130			10/12/21 09:15	10/13/21 23:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	626		4.95	mg/Kg			10/13/21 19:02	1

Client Sample ID: C-933

Lab Sample ID: 890-1365-67

Date Collected: 10/05/21 12:03

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 14:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 14:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 14:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:23	10/16/21 14:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 14:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:23	10/16/21 14:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			10/14/21 10:23	10/16/21 14:56	1
1,4-Difluorobenzene (Surr)	79		70 - 130			10/14/21 10:23	10/16/21 14:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 09:15	10/13/21 23:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 09:15	10/13/21 23:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-933

Lab Sample ID: 890-1365-67

Date Collected: 10/05/21 12:03

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 09:15	10/13/21 23:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/12/21 09:15	10/13/21 23:56	1
o-Terphenyl	113		70 - 130			10/12/21 09:15	10/13/21 23:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	484		5.02	mg/Kg			10/13/21 19:07	1

Client Sample ID: C-934

Lab Sample ID: 890-1365-68

Date Collected: 10/05/21 12:04

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 15:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 15:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 15:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:23	10/16/21 15:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 15:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:23	10/16/21 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			10/14/21 10:23	10/16/21 15:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130			10/14/21 10:23	10/16/21 15:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/14/21 00:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/14/21 00:18	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/14/21 00:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/12/21 09:15	10/14/21 00:18	1
o-Terphenyl	116		70 - 130			10/12/21 09:15	10/14/21 00:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		4.99	mg/Kg			10/13/21 21:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-935

Lab Sample ID: 890-1365-69

Date Collected: 10/05/21 12:05

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:23	10/16/21 15:37	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:23	10/16/21 15:37	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:23	10/16/21 15:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:23	10/16/21 15:37	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:23	10/16/21 15:37	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:23	10/16/21 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	10/14/21 10:23	10/16/21 15:37	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/14/21 10:23	10/16/21 15:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/14/21 00:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/14/21 00:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/14/21 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	10/12/21 09:15	10/14/21 00:39	1
o-Terphenyl	133	S1+	70 - 130	10/12/21 09:15	10/14/21 00:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		4.96	mg/Kg			10/13/21 21:49	1

Client Sample ID: C-936

Lab Sample ID: 890-1365-70

Date Collected: 10/05/21 12:06

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 15:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 15:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 15:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:23	10/16/21 15:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 15:57	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:23	10/16/21 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/14/21 10:23	10/16/21 15:57	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/14/21 10:23	10/16/21 15:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-936

Lab Sample ID: 890-1365-70

Date Collected: 10/05/21 12:06

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/14/21 01:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/14/21 01:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/14/21 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/12/21 09:15	10/14/21 01:00	1
o-Terphenyl	122		70 - 130			10/12/21 09:15	10/14/21 01:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.0	F1	4.99	mg/Kg			10/13/21 21:55	1

Client Sample ID: C-937

Lab Sample ID: 890-1365-71

Date Collected: 10/05/21 12:07

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:23	10/16/21 17:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:23	10/16/21 17:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:23	10/16/21 17:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:23	10/16/21 17:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:23	10/16/21 17:19	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:23	10/16/21 17:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130			10/14/21 10:23	10/16/21 17:19	1
1,4-Difluorobenzene (Surr)	119		70 - 130			10/14/21 10:23	10/16/21 17:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/14/21 01:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/14/21 01:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-937

Lab Sample ID: 890-1365-71

Date Collected: 10/05/21 12:07

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/14/21 01:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/12/21 09:15	10/14/21 01:42	1
o-Terphenyl	116		70 - 130			10/12/21 09:15	10/14/21 01:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.92		4.95	mg/Kg			10/13/21 22:14	1

Client Sample ID: C-938

Lab Sample ID: 890-1365-72

Date Collected: 10/05/21 12:08

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:23	10/16/21 17:40	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:23	10/16/21 17:40	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:23	10/16/21 17:40	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:23	10/16/21 17:40	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:23	10/16/21 17:40	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:23	10/16/21 17:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			10/14/21 10:23	10/16/21 17:40	1
1,4-Difluorobenzene (Surr)	91		70 - 130			10/14/21 10:23	10/16/21 17:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 09:15	10/14/21 02:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 09:15	10/14/21 02:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 09:15	10/14/21 02:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/12/21 09:15	10/14/21 02:03	1
o-Terphenyl	120		70 - 130			10/12/21 09:15	10/14/21 02:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			10/13/21 22:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-939

Lab Sample ID: 890-1365-73

Date Collected: 10/05/21 12:09

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:23	10/16/21 18:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:23	10/16/21 18:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:23	10/16/21 18:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 10:23	10/16/21 18:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:23	10/16/21 18:00	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 10:23	10/16/21 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	10/14/21 10:23	10/16/21 18:00	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	10/14/21 10:23	10/16/21 18:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/14/21 02:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/14/21 02:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 09:15	10/14/21 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	10/12/21 09:15	10/14/21 02:24	1
o-Terphenyl	118		70 - 130	10/12/21 09:15	10/14/21 02:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		4.97	mg/Kg			10/13/21 22:39	1

Client Sample ID: C-940

Lab Sample ID: 890-1365-74

Date Collected: 10/05/21 12:10

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 18:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 18:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 18:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:23	10/16/21 18:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 18:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:23	10/16/21 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	10/14/21 10:23	10/16/21 18:21	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/14/21 10:23	10/16/21 18:21	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-940

Lab Sample ID: 890-1365-74

Date Collected: 10/05/21 12:10

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/14/21 02:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/14/21 02:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 09:15	10/14/21 02:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/12/21 09:15	10/14/21 02:45	1
o-Terphenyl	110		70 - 130			10/12/21 09:15	10/14/21 02:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		5.02	mg/Kg			10/13/21 22:45	1

Client Sample ID: C-941

Lab Sample ID: 890-1365-75

Date Collected: 10/05/21 12:11

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:23	10/16/21 18:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:23	10/16/21 18:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:23	10/16/21 18:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:23	10/16/21 18:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:23	10/16/21 18:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:23	10/16/21 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			10/14/21 10:23	10/16/21 18:41	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/14/21 10:23	10/16/21 18:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/11/21 13:54	10/12/21 19:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/11/21 13:54	10/12/21 19:18	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-941

Lab Sample ID: 890-1365-75

Date Collected: 10/05/21 12:11

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/21 13:54	10/12/21 19:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/11/21 13:54	10/12/21 19:18	1
o-Terphenyl	120		70 - 130			10/11/21 13:54	10/12/21 19:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	618		4.99	mg/Kg			10/13/21 22:51	1

Client Sample ID: C-942

Lab Sample ID: 890-1365-76

Date Collected: 10/05/21 12:12

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 19:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 19:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 19:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:23	10/16/21 19:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 19:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:23	10/16/21 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			10/14/21 10:23	10/16/21 19:02	1
1,4-Difluorobenzene (Surr)	91		70 - 130			10/14/21 10:23	10/16/21 19:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/09/21 13:45	10/11/21 19:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/09/21 13:45	10/11/21 19:02	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/09/21 13:45	10/11/21 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/09/21 13:45	10/11/21 19:02	1
o-Terphenyl	109		70 - 130			10/09/21 13:45	10/11/21 19:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.9		5.04	mg/Kg			10/13/21 22:58	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-943

Lab Sample ID: 890-1365-77

Date Collected: 10/05/21 12:13

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 19:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 19:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 19:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:23	10/16/21 19:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:23	10/16/21 19:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:23	10/16/21 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	10/14/21 10:23	10/16/21 19:22	1
1,4-Difluorobenzene (Surr)	92		70 - 130	10/14/21 10:23	10/16/21 19:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/09/21 13:45	10/11/21 19:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/09/21 13:45	10/11/21 19:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/09/21 13:45	10/11/21 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	10/09/21 13:45	10/11/21 19:24	1
o-Terphenyl	100		70 - 130	10/09/21 13:45	10/11/21 19:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	232		4.98	mg/Kg			10/13/21 23:04	1

Client Sample ID: C-944

Lab Sample ID: 890-1365-78

Date Collected: 10/05/21 12:14

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 19:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 19:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 19:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:23	10/16/21 19:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 19:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:23	10/16/21 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/14/21 10:23	10/16/21 19:42	1
1,4-Difluorobenzene (Surr)	87		70 - 130	10/14/21 10:23	10/16/21 19:42	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-944

Lab Sample ID: 890-1365-78

Date Collected: 10/05/21 12:14

Matrix: Solid

Date Received: 10/05/21 15:47

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 19:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 19:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			10/09/21 13:45	10/11/21 19:45	1
o-Terphenyl	99		70 - 130			10/09/21 13:45	10/11/21 19:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	745		5.00	mg/Kg			10/13/21 23:10	1

Client Sample ID: C-945

Lab Sample ID: 890-1365-79

Date Collected: 10/05/21 12:15

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:23	10/16/21 20:03	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:23	10/16/21 20:03	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:23	10/16/21 20:03	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/14/21 10:23	10/16/21 20:03	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:23	10/16/21 20:03	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/14/21 10:23	10/16/21 20:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			10/14/21 10:23	10/16/21 20:03	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/14/21 10:23	10/16/21 20:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/18/21 14:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 09:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 20:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 20:06	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-945

Lab Sample ID: 890-1365-79

Date Collected: 10/05/21 12:15

Matrix: Solid

Date Received: 10/05/21 15:47

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/09/21 13:45	10/11/21 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	10/09/21 13:45	10/11/21 20:06	1
o-Terphenyl	99		70 - 130	10/09/21 13:45	10/11/21 20:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.0		4.96	mg/Kg			10/13/21 23:16	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1365-1	C-867	89	98
890-1365-1 MS	C-867	96	106
890-1365-1 MSD	C-867	93	93
890-1365-2	C-868	90	104
890-1365-3	C-869	132 S1+	106
890-1365-4	C-870	88	103
890-1365-5	C-871	93	111
890-1365-6	C-872	93	102
890-1365-7	C-873	131 S1+	105
890-1365-8	C-874	122	117
890-1365-9	C-875	88	119
890-1365-10	C-876	85	82
890-1365-11	C-877	136 S1+	78
890-1365-12	C-878	109	93
890-1365-13	C-879	86	99
890-1365-14	C-880	91	117
890-1365-15	C-881	96	116
890-1365-16	C-882	123	114
890-1365-17	C-883	88	78
890-1365-18	C-884	102	109
890-1365-19	C-885	77	79
890-1365-20	C-886	92	114
890-1365-21	C-887	117	98
890-1365-21 MS	C-887	124	96
890-1365-21 MSD	C-887	117	94
890-1365-22	C-888	115	97
890-1365-23	C-889	119	97
890-1365-24	C-890	123	98
890-1365-25	C-891	114	96
890-1365-26	C-892	124	94
890-1365-27	C-893	113	91
890-1365-28	C-894	121	88
890-1365-29	C-895	114	89
890-1365-30	C-896	117	91
890-1365-31	C-897	132 S1+	93
890-1365-32	C-898	136 S1+	95
890-1365-33	C-899	124	100
890-1365-34	C-900	119	100
890-1365-35	C-901	116	98
890-1365-36	C-902	156 S1+	105
890-1365-37	C-903	126	95
890-1365-38	C-904	121	93
890-1365-39	C-905	129	90
890-1365-40	C-906	121	92
890-1365-41	C-907	92	114
890-1365-41 MS	C-907	98	102
890-1365-41 MSD	C-907	155 S1+	85
890-1365-42	C-908	119	103
890-1365-43	C-909	90	81

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1365-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1365-44	C-910	148 S1+	113
890-1365-45	C-911	93	107
890-1365-46	C-912	101	90
890-1365-47	C-913	108	106
890-1365-48	C-914	117	120
890-1365-49	C-915	95	113
890-1365-50	C-916	82	98
890-1365-51	C-917	198 S1+	90
890-1365-52	C-918	107	155 S1+
890-1365-53	C-919	97	113
890-1365-54	C-920	124	75
890-1365-55	C-921	109	114
890-1365-56	C-922	84	93
890-1365-57	C-923	100	108
890-1365-58	C-924	93	91
890-1365-59	C-925	104	91
890-1365-60	C-926	99	110
890-1365-61	C-927	120	67 S1-
890-1365-61 MS	C-927	127	89
890-1365-61 MSD	C-927	126	93
890-1365-62	C-928	123	90
890-1365-63	C-929	95	76
890-1365-64	C-930	113	93
890-1365-65	C-931	122	91
890-1365-66	C-932	119	98
890-1365-67	C-933	88	79
890-1365-68	C-934	125	95
890-1365-69	C-935	127	91
890-1365-70	C-936	112	93
890-1365-71	C-937	164 S1+	119
890-1365-72	C-938	131 S1+	91
890-1365-73	C-939	116	68 S1-
890-1365-74	C-940	127	107
890-1365-75	C-941	123	109
890-1365-76	C-942	114	91
890-1365-77	C-943	111	92
890-1365-78	C-944	96	87
890-1365-79	C-945	111	93
LCS 880-9444/1-A	Lab Control Sample	82	102
LCS 880-9445/1-A	Lab Control Sample	108	102
LCS 880-9446/1-A	Lab Control Sample	88	100
LCS 880-9447/1-A	Lab Control Sample	111	101
LCSD 880-9444/2-A	Lab Control Sample Dup	84	100
LCSD 880-9445/2-A	Lab Control Sample Dup	110	105
LCSD 880-9446/2-A	Lab Control Sample Dup	84	84
LCSD 880-9447/2-A	Lab Control Sample Dup	109	95
MB 880-9108/5-A	Method Blank	95	96
MB 880-9444/5-A	Method Blank	100	107
MB 880-9445/5-A	Method Blank	110	93
MB 880-9446/5-A	Method Blank	121	117

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1365-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
MB 880-9447/5-A	Method Blank	97	90
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1360-A-37-D MS	Matrix Spike	78	76
890-1360-A-37-E MSD	Matrix Spike Duplicate	79	74
890-1361-A-1-L MS	Matrix Spike	123	113
890-1361-A-1-M MSD	Matrix Spike Duplicate	117	104
890-1365-1	C-867	119	128
890-1365-1 MS	C-867	126	117
890-1365-1 MSD	C-867	128	116
890-1365-2	C-868	138 S1+	142 S1+
890-1365-3	C-869	131 S1+	136 S1+
890-1365-4	C-870	130	136 S1+
890-1365-5	C-871	126	132 S1+
890-1365-6	C-872	121	131 S1+
890-1365-7	C-873	131 S1+	136 S1+
890-1365-8	C-874	117	121
890-1365-9	C-875	123	129
890-1365-10	C-876	130	143 S1+
890-1365-11	C-877	135 S1+	159 S1+
890-1365-12	C-878	116	124
890-1365-13	C-879	132 S1+	135 S1+
890-1365-14	C-880	117	123
890-1365-15	C-881	127	135 S1+
890-1365-16	C-882	130	150 S1+
890-1365-17	C-883	124	132 S1+
890-1365-18	C-884	147 S1+	148 S1+
890-1365-19	C-885	104	107
890-1365-20	C-886	124	127
890-1365-21	C-887	108	107
890-1365-21 MS	C-887	112	102
890-1365-21 MSD	C-887	98	91
890-1365-22	C-888	104	108
890-1365-23	C-889	113	112
890-1365-24	C-890	101	102
890-1365-25	C-891	97	99
890-1365-26	C-892	96	97
890-1365-27	C-893	101	103
890-1365-28	C-894	115	113
890-1365-29	C-895	116	113
890-1365-30	C-896	95	96
890-1365-31	C-897	124	120

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1365-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1365-32	C-898	108	104
890-1365-33	C-899	96	96
890-1365-34	C-900	110	114
890-1365-35	C-901	130	132 S1+
890-1365-36	C-902	117	116
890-1365-37	C-903	118	116
890-1365-38	C-904	99	100
890-1365-39	C-905	93	93
890-1365-40	C-906	97	95
890-1365-41	C-907	105	117
890-1365-41 MS	C-907	115	109
890-1365-41 MSD	C-907	114	109
890-1365-42	C-908	111	124
890-1365-43	C-909	111	124
890-1365-44	C-910	114	127
890-1365-45	C-911	111	126
890-1365-46	C-912	112	123
890-1365-47	C-913	109	118
890-1365-48	C-914	111	126
890-1365-49	C-915	108	122
890-1365-50	C-916	109	123
890-1365-51	C-917	112	121
890-1365-52	C-918	106	119
890-1365-53	C-919	110	120
890-1365-54	C-920	107	119
890-1365-55	C-921	116	130
890-1365-56	C-922	128	141 S1+
890-1365-57	C-923	109	126
890-1365-58	C-924	114	129
890-1365-59	C-925	109	126
890-1365-60	C-926	109	125
890-1365-61	C-927	101	108
890-1365-61 MS	C-927	104	102
890-1365-61 MSD	C-927	108	105
890-1365-62	C-928	102	110
890-1365-63	C-929	107	117
890-1365-64	C-930	105	114
890-1365-65	C-931	105	115
890-1365-66	C-932	117	126
890-1365-67	C-933	106	113
890-1365-68	C-934	109	116
890-1365-69	C-935	124	133 S1+
890-1365-70	C-936	112	122
890-1365-71	C-937	104	116
890-1365-72	C-938	105	120
890-1365-73	C-939	104	118
890-1365-74	C-940	101	110
890-1365-75	C-941	109	120
890-1365-76	C-942	102	109
890-1365-77	C-943	95	100

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1365-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1365-78	C-944	91	99
890-1365-79	C-945	92	99
LCS 880-9166/2-A	Lab Control Sample	88	91
LCS 880-9217/2-A	Lab Control Sample	113	105
LCS 880-9219/2-A	Lab Control Sample	146 S1+	138 S1+
LCS 880-9220/2-A	Lab Control Sample	82	77
LCS 880-9273/2-A	Lab Control Sample	106	112
LCS 880-9277/2-A	Lab Control Sample	97	97
LCSD 880-9166/3-A	Lab Control Sample Dup	100	105
LCSD 880-9217/3-A	Lab Control Sample Dup	116	111
LCSD 880-9219/3-A	Lab Control Sample Dup	148 S1+	145 S1+
LCSD 880-9220/3-A	Lab Control Sample Dup	86	84
LCSD 880-9273/3-A	Lab Control Sample Dup	97	103
LCSD 880-9277/3-A	Lab Control Sample Dup	89	90
MB 880-9166/1-A	Method Blank	95	105
MB 880-9217/1-A	Method Blank	112	123
MB 880-9219/1-A	Method Blank	117	130
MB 880-9220/1-A	Method Blank	98	100
MB 880-9273/1-A	Method Blank	115	134 S1+
MB 880-9277/1-A	Method Blank	118	134 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9108/5-A

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9108

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 14:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 14:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 14:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:35	10/15/21 14:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:35	10/15/21 14:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:35	10/15/21 14:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/14/21 10:35	10/15/21 14:06	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/14/21 10:35	10/15/21 14:06	1

Lab Sample ID: MB 880-9444/5-A

Matrix: Solid

Analysis Batch: 9525

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9444

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 15:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 15:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 15:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:14	10/15/21 15:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:14	10/15/21 15:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:14	10/15/21 15:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/14/21 10:14	10/15/21 15:01	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/14/21 10:14	10/15/21 15:01	1

Lab Sample ID: LCS 880-9444/1-A

Matrix: Solid

Analysis Batch: 9525

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08878		mg/Kg		89	70 - 130
Toluene	0.100	0.09726		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09111		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1577		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07548		mg/Kg		75	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-9444/2-A

Matrix: Solid

Analysis Batch: 9525

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9444

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08427		mg/Kg		84	70 - 130	5	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-9444/2-A

Matrix: Solid

Analysis Batch: 9525

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9444

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.1028		mg/Kg		103	70 - 130	6	35
Ethylbenzene	0.100	0.09381		mg/Kg		94	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1664		mg/Kg		83	70 - 130	5	35
o-Xylene	0.100	0.07895		mg/Kg		79	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-1365-1 MS

Matrix: Solid

Analysis Batch: 9525

Client Sample ID: C-867

Prep Type: Total/NA

Prep Batch: 9444

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.05270	F1	mg/Kg		53	70 - 130
Toluene	<0.00199	U	0.100	0.07213		mg/Kg		72	70 - 130
Ethylbenzene	<0.00199	U F1	0.100	0.06591	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1114	F1	mg/Kg		56	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.05137	F1	mg/Kg		51	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-1365-1 MSD

Matrix: Solid

Analysis Batch: 9525

Client Sample ID: C-867

Prep Type: Total/NA

Prep Batch: 9444

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0990	0.06084	F1	mg/Kg		61	70 - 130	14	35
Toluene	<0.00199	U	0.0990	0.07813		mg/Kg		79	70 - 130	8	35
Ethylbenzene	<0.00199	U F1	0.0990	0.08222		mg/Kg		83	70 - 130	22	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.1387		mg/Kg		70	70 - 130	22	35
o-Xylene	<0.00199	U F1	0.0990	0.06727	F1	mg/Kg		68	70 - 130	27	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-9445/5-A

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9445

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 01:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 01:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 01:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:18	10/16/21 01:01	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-9445/5-A

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9445

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:18	10/16/21 01:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:18	10/16/21 01:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/14/21 10:18	10/16/21 01:01	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/14/21 10:18	10/16/21 01:01	1

Lab Sample ID: LCS 880-9445/1-A

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09554		mg/Kg		96	70 - 130
Toluene	0.100	0.08942		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09041		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1888		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09702		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-9445/2-A

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09107		mg/Kg		91	70 - 130	5	35
Toluene	0.100	0.08733		mg/Kg		87	70 - 130	2	35
Ethylbenzene	0.100	0.08694		mg/Kg		87	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1813		mg/Kg		91	70 - 130	4	35
o-Xylene	0.100	0.09213		mg/Kg		92	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-1365-21 MS

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: C-887

Prep Type: Total/NA

Prep Batch: 9445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.05646	F1	mg/Kg		56	70 - 130
Toluene	<0.00199	U F1	0.100	0.05843	F1	mg/Kg		58	70 - 130
Ethylbenzene	<0.00199	U F1	0.100	0.05822	F1	mg/Kg		58	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1225	F1	mg/Kg		61	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.06463	F1	mg/Kg		64	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1365-21 MS

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: C-887

Prep Type: Total/NA

Prep Batch: 9445

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-1365-21 MSD

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: C-887

Prep Type: Total/NA

Prep Batch: 9445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.04645	F1	mg/Kg		47	70 - 130	19	35
Toluene	<0.00199	U F1	0.0998	0.04914	F1	mg/Kg		49	70 - 130	17	35
Ethylbenzene	<0.00199	U F1	0.0998	0.05021	F1	mg/Kg		50	70 - 130	15	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1078	F1	mg/Kg		54	70 - 130	13	35
o-Xylene	<0.00199	U F1	0.0998	0.05622	F1	mg/Kg		56	70 - 130	14	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-9446/5-A

Matrix: Solid

Analysis Batch: 9587

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9446

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 15:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 15:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 15:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:20	10/16/21 15:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:20	10/16/21 15:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:20	10/16/21 15:13	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	121		70 - 130	10/14/21 10:20	10/16/21 15:13	1		
1,4-Difluorobenzene (Surr)	117		70 - 130	10/14/21 10:20	10/16/21 15:13	1		

Lab Sample ID: LCS 880-9446/1-A

Matrix: Solid

Analysis Batch: 9587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07887		mg/Kg		79	70 - 130
Toluene	0.100	0.09906		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09523		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1690		mg/Kg		84	70 - 130
o-Xylene	0.100	0.07992		mg/Kg		80	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-9446/1-A

Matrix: Solid

Analysis Batch: 9587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9446

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-9446/2-A

Matrix: Solid

Analysis Batch: 9587

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9446

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.07910		mg/Kg		79	70 - 130	0	35
Toluene			0.100	0.09421		mg/Kg		94	70 - 130	5	35
Ethylbenzene			0.100	0.09069		mg/Kg		91	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1526		mg/Kg		76	70 - 130	10	35
o-Xylene			0.100	0.07507		mg/Kg		75	70 - 130	6	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 890-1365-41 MS

Matrix: Solid

Analysis Batch: 9587

Client Sample ID: C-907

Prep Type: Total/NA

Prep Batch: 9446

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1 F2	0.100	0.06689	F1	mg/Kg		67	70 - 130		
Toluene	<0.00201	U	0.100	0.08508		mg/Kg		85	70 - 130		
Ethylbenzene	<0.00201	U	0.100	0.07723		mg/Kg		77	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.201	0.1380	F1	mg/Kg		69	70 - 130		
o-Xylene	<0.00201	U F1	0.100	0.06860	F1	mg/Kg		68	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-1365-41 MSD

Matrix: Solid

Analysis Batch: 9587

Client Sample ID: C-907

Prep Type: Total/NA

Prep Batch: 9446

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1 F2	0.100	0.03827	F1 F2	mg/Kg		38	70 - 130	54	35
Toluene	<0.00201	U	0.100	0.1020		mg/Kg		102	70 - 130	18	35
Ethylbenzene	<0.00201	U	0.100	0.09374		mg/Kg		94	70 - 130	19	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.2164	F2	mg/Kg		108	70 - 130	44	35
o-Xylene	<0.00201	U F1	0.100	0.08636		mg/Kg		86	70 - 130	23	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-9447/5-A

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9447

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 12:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 12:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 12:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:23	10/16/21 12:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:23	10/16/21 12:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:23	10/16/21 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/14/21 10:23	10/16/21 12:32	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/14/21 10:23	10/16/21 12:32	1

Lab Sample ID: LCS 880-9447/1-A

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09218		mg/Kg		92	70 - 130
Toluene	0.100	0.08991		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08967		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1909		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09602		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-9447/2-A

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9447

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09081		mg/Kg		91	70 - 130	1	35
Toluene	0.100	0.08802		mg/Kg		88	70 - 130	2	35
Ethylbenzene	0.100	0.08781		mg/Kg		88	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1839		mg/Kg		92	70 - 130	4	35
o-Xylene	0.100	0.09327		mg/Kg		93	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-1365-61 MS

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: C-927

Prep Type: Total/NA

Prep Batch: 9447

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.01790	F1	mg/Kg		18	70 - 130
Toluene	<0.00199	U F1	0.100	0.02207	F1	mg/Kg		22	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1365-61 MS

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: C-927

Prep Type: Total/NA

Prep Batch: 9447

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F1	0.100	0.02596	F1	mg/Kg		26	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.05733	F1	mg/Kg		29	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.03024	F1	mg/Kg		30	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-1365-61 MSD

Matrix: Solid

Analysis Batch: 9521

Client Sample ID: C-927

Prep Type: Total/NA

Prep Batch: 9447

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1	0.0990	0.02038	F1	mg/Kg		21	70 - 130	13	35
Toluene	<0.00199	U F1	0.0990	0.02472	F1	mg/Kg		25	70 - 130	11	35
Ethylbenzene	<0.00199	U F1	0.0990	0.02841	F1	mg/Kg		29	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.06266	F1	mg/Kg		32	70 - 130	9	35
o-Xylene	<0.00199	U F1	0.0990	0.03495	F1	mg/Kg		35	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-9166/1-A

Matrix: Solid

Analysis Batch: 9180

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9166

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 11:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 11:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/09/21 13:45	10/11/21 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	10/09/21 13:45	10/11/21 11:01	1
o-Terphenyl	105		70 - 130	10/09/21 13:45	10/11/21 11:01	1

Lab Sample ID: LCS 880-9166/2-A

Matrix: Solid

Analysis Batch: 9180

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	748.8		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	1000	750.2		mg/Kg		75	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-9166/2-A

Matrix: Solid

Analysis Batch: 9180

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9166

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1-Chlorooctane	88		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-9166/3-A

Matrix: Solid

Analysis Batch: 9180

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9166

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	854.8		mg/Kg		85	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	884.5		mg/Kg		88	70 - 130	16	20

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
1-Chlorooctane	100		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-1360-A-37-D MS

Matrix: Solid

Analysis Batch: 9180

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9166

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	690.2	F1	mg/Kg		69	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	694.8		mg/Kg		70	70 - 130		

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1-Chlorooctane	78		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 890-1360-A-37-E MSD

Matrix: Solid

Analysis Batch: 9180

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9166

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	679.9	F1	mg/Kg		68	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	683.5	F1	mg/Kg		68	70 - 130	2	20

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1-Chlorooctane	79		70 - 130
o-Terphenyl	74		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-9217/1-A

Matrix: Solid

Analysis Batch: 9261

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9217

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 13:54	10/12/21 10:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 13:54	10/12/21 10:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 13:54	10/12/21 10:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/11/21 13:54	10/12/21 10:12	1
o-Terphenyl	123		70 - 130			10/11/21 13:54	10/12/21 10:12	1

Lab Sample ID: LCS 880-9217/2-A

Matrix: Solid

Analysis Batch: 9261

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1170		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1083		mg/Kg		108	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	113		70 - 130				
o-Terphenyl	105		70 - 130				

Lab Sample ID: LCSD 880-9217/3-A

Matrix: Solid

Analysis Batch: 9261

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9217

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1181		mg/Kg		118	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1199		mg/Kg		120	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	116		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: 890-1361-A-1-L MS

Matrix: Solid

Analysis Batch: 9261

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1146		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1053		mg/Kg		104	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1361-A-1-L MS

Matrix: Solid

Analysis Batch: 9261

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9217

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-1361-A-1-M MSD

Matrix: Solid

Analysis Batch: 9261

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1179		mg/Kg		118	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	994.5		mg/Kg		98	70 - 130	6	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: MB 880-9219/1-A

Matrix: Solid

Analysis Batch: 9265

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9219

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 14:30	10/12/21 10:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 14:30	10/12/21 10:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 14:30	10/12/21 10:35	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	117		70 - 130	10/11/21 14:30	10/12/21 10:35	1
o-Terphenyl	130		70 - 130	10/11/21 14:30	10/12/21 10:35	1

Lab Sample ID: LCS 880-9219/2-A

Matrix: Solid

Analysis Batch: 9265

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1318	*+	mg/Kg		132	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1443	*+	mg/Kg		144	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	146	S1+	70 - 130
o-Terphenyl	138	S1+	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-9219/3-A

Matrix: Solid

Analysis Batch: 9265

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9219

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1216		mg/Kg		122	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1352	*+	mg/Kg		135	70 - 130	7	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	148	S1+	70 - 130						
o-Terphenyl	145	S1+	70 - 130						

Lab Sample ID: 890-1365-1 MS

Matrix: Solid

Analysis Batch: 9265

Client Sample ID: C-867

Prep Type: Total/NA

Prep Batch: 9219

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	997	1118		mg/Kg		109	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *	997	1173		mg/Kg		118	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	126		70 - 130								
o-Terphenyl	117		70 - 130								

Lab Sample ID: 890-1365-1 MSD

Matrix: Solid

Analysis Batch: 9265

Client Sample ID: C-867

Prep Type: Total/NA

Prep Batch: 9219

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	1000	1194		mg/Kg		116	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U *	1000	1182		mg/Kg		118	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	128		70 - 130								
o-Terphenyl	116		70 - 130								

Lab Sample ID: MB 880-9220/1-A

Matrix: Solid

Analysis Batch: 9267

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9220

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 10:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 10:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/21 14:45	10/12/21 10:35	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-9220/1-A

Matrix: Solid

Analysis Batch: 9267

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9220

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	98		70 - 130	10/11/21 14:45	10/12/21 10:35	1				
o-Terphenyl	100		70 - 130	10/11/21 14:45	10/12/21 10:35	1				

Lab Sample ID: LCS 880-9220/2-A

Matrix: Solid

Analysis Batch: 9267

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9220

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	789.3		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	855.8		mg/Kg		86	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	77		70 - 130								

Lab Sample ID: LCSD 880-9220/3-A

Matrix: Solid

Analysis Batch: 9267

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9220

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	852.5		mg/Kg		85	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	918.5		mg/Kg		92	70 - 130	7	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	86		70 - 130								
o-Terphenyl	84		70 - 130								

Lab Sample ID: 890-1365-21 MS

Matrix: Solid

Analysis Batch: 9267

Client Sample ID: C-887

Prep Type: Total/NA

Prep Batch: 9220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1105		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1064		mg/Kg		105	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	102		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1365-21 MSD

Matrix: Solid

Analysis Batch: 9267

Client Sample ID: C-887

Prep Type: Total/NA

Prep Batch: 9220

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	941.9		mg/Kg		94	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	965.6		mg/Kg		95	70 - 130	10	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
o-Terphenyl	91		70 - 130								

Lab Sample ID: MB 880-9273/1-A

Matrix: Solid

Analysis Batch: 9358

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9273

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/13/21 20:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/13/21 20:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 08:53	10/13/21 20:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			10/12/21 08:53	10/13/21 20:01	1
o-Terphenyl	134	S1+	70 - 130			10/12/21 08:53	10/13/21 20:01	1

Lab Sample ID: LCS 880-9273/2-A

Matrix: Solid

Analysis Batch: 9358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	869.6		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	976.1		mg/Kg		98	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: LCSD 880-9273/3-A

Matrix: Solid

Analysis Batch: 9358

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9273

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	895.6		mg/Kg		90	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	995.8		mg/Kg		100	70 - 130	2	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-9273/3-A

Matrix: Solid

Analysis Batch: 9358

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9273

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 890-1365-41 MS

Matrix: Solid

Analysis Batch: 9358

Client Sample ID: C-907

Prep Type: Total/NA

Prep Batch: 9273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1024		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1078		mg/Kg		108	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 890-1365-41 MSD

Matrix: Solid

Analysis Batch: 9358

Client Sample ID: C-907

Prep Type: Total/NA

Prep Batch: 9273

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1025		mg/Kg		102	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1086		mg/Kg		109	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: MB 880-9277/1-A

Matrix: Solid

Analysis Batch: 9360

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9277

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 09:15	10/13/21 20:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 09:15	10/13/21 20:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 09:15	10/13/21 20:01	1

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	134	S1+	70 - 130

	Prepared	Analyzed	Dil Fac
1-Chlorooctane	10/12/21 09:15	10/13/21 20:01	1
o-Terphenyl	10/12/21 09:15	10/13/21 20:01	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-9277/2-A

Matrix: Solid

Analysis Batch: 9360

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9277

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	895.8		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1072		mg/Kg		107	70 - 130		
					</						

Lab Sample ID: LCSD 880-9277/3-A

Matrix: Solid

Analysis Batch: 9360

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9277

Top Bottom											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	860.9		mg/Kg		86	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1050		mg/Kg		105	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	90		70 - 130								

Lab Sample ID: 890-1365-61 MS

Matrix: Solid

Analysis Batch: 9360

Client Sample ID: C-927

Prep Type: Total/NA

Prep Batch: 9277

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	936.5		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1143		mg/Kg		115	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	102		70 - 130								

Lab Sample ID: 890-1365-61 MSD

Matrix: Solid

Analysis Batch: 9360

Client Sample ID: C-927

Prep Type: Total/NA

Prep Batch: 9277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1009		mg/Kg		101	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1188		mg/Kg		119	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	108		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1365-61 MSD
Matrix: Solid
Analysis Batch: 9360

Client Sample ID: C-927
Prep Type: Total/NA
Prep Batch: 9277

Surrogate	%Recovery	MSD Qualifier	MSD Limits
o-Terphenyl	105		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9137/1-A
Matrix: Solid
Analysis Batch: 9316

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/13/21 00:37	1

Lab Sample ID: LCS 880-9137/2-A
Matrix: Solid
Analysis Batch: 9316

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	249.8		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-9137/3-A
Matrix: Solid
Analysis Batch: 9316

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	250	250.3		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1365-1 MS
Matrix: Solid
Analysis Batch: 9316

Client Sample ID: C-867
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11.7		248	271.9		mg/Kg		105	90 - 110

Lab Sample ID: 890-1365-1 MSD
Matrix: Solid
Analysis Batch: 9316

Client Sample ID: C-867
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	11.7		248	272.5		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-1365-11 MS
Matrix: Solid
Analysis Batch: 9316

Client Sample ID: C-877
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	191		250	443.1		mg/Kg		101	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1365-11 MSD

Matrix: Solid

Analysis Batch: 9316

Client Sample ID: C-877

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	191		250	444.8		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-9195/1-A

Matrix: Solid

Analysis Batch: 9363

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/13/21 09:00	1

Lab Sample ID: LCS 880-9195/2-A

Matrix: Solid

Analysis Batch: 9363

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	242.8		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-9195/3-A

Matrix: Solid

Analysis Batch: 9363

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	243.3		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-1364-A-26-C MS

Matrix: Solid

Analysis Batch: 9363

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	317		250	564.1		mg/Kg		99	90 - 110

Lab Sample ID: 890-1364-A-26-D MSD

Matrix: Solid

Analysis Batch: 9363

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	317		250	565.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-9196/1-A

Matrix: Solid

Analysis Batch: 9364

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/13/21 12:41	1

Lab Sample ID: LCS 880-9196/2-A

Matrix: Solid

Analysis Batch: 9364

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	244.5		mg/Kg		98	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-9196/3-A

Matrix: Solid

Analysis Batch: 9364

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	245.7		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-1365-29 MS

Matrix: Solid

Analysis Batch: 9364

Client Sample ID: C-895

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1490		1250	2781		mg/Kg		103	90 - 110		

Lab Sample ID: 890-1365-29 MSD

Matrix: Solid

Analysis Batch: 9364

Client Sample ID: C-895

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1490		1250	2786		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-9197/1-A

Matrix: Solid

Analysis Batch: 9365

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/13/21 19:44	1

Lab Sample ID: LCS 880-9197/2-A

Matrix: Solid

Analysis Batch: 9365

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	255.3		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-9197/3-A

Matrix: Solid

Analysis Batch: 9365

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.7		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 890-1365-41 MS

Matrix: Solid

Analysis Batch: 9365

Client Sample ID: C-907

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	63.2		248	318.1		mg/Kg		103	90 - 110		

Lab Sample ID: 890-1365-41 MSD

Matrix: Solid

Analysis Batch: 9365

Client Sample ID: C-907

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	63.2		248	318.0		mg/Kg		103	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9198/1-A

Matrix: Solid

Analysis Batch: 9376

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/13/21 16:19	1

Lab Sample ID: LCS 880-9198/2-A

Matrix: Solid

Analysis Batch: 9376

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.0		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-9198/3-A

Matrix: Solid

Analysis Batch: 9376

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.3		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-1365-48 MS

Matrix: Solid

Analysis Batch: 9376

Client Sample ID: C-914

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	265		250	514.2		mg/Kg		100	90 - 110

Lab Sample ID: 890-1365-48 MSD

Matrix: Solid

Analysis Batch: 9376

Client Sample ID: C-914

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	265		250	516.1		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1365-58 MS

Matrix: Solid

Analysis Batch: 9376

Client Sample ID: C-924

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	334		252	588.0		mg/Kg		101	90 - 110

Lab Sample ID: 890-1365-58 MSD

Matrix: Solid

Analysis Batch: 9376

Client Sample ID: C-924

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	334		252	590.3		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-9200/1-A

Matrix: Solid

Analysis Batch: 9377

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/13/21 20:09	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-9200/2-A

Matrix: Solid

Analysis Batch: 9377

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	263.6		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-9200/3-A

Matrix: Solid

Analysis Batch: 9377

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	263.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-1365-70 MS

Matrix: Solid

Analysis Batch: 9377

Client Sample ID: C-936

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	39.0	F1	250	326.8	F1	mg/Kg		115	90 - 110

Lab Sample ID: 890-1365-70 MSD

Matrix: Solid

Analysis Batch: 9377

Client Sample ID: C-936

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	39.0	F1	250	324.1	F1	mg/Kg		114	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC VOA

Prep Batch: 9108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9108/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 9444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-1	C-867	Total/NA	Solid	5035	
890-1365-2	C-868	Total/NA	Solid	5035	
890-1365-3	C-869	Total/NA	Solid	5035	
890-1365-4	C-870	Total/NA	Solid	5035	
890-1365-5	C-871	Total/NA	Solid	5035	
890-1365-6	C-872	Total/NA	Solid	5035	
890-1365-7	C-873	Total/NA	Solid	5035	
890-1365-8	C-874	Total/NA	Solid	5035	
890-1365-9	C-875	Total/NA	Solid	5035	
890-1365-10	C-876	Total/NA	Solid	5035	
890-1365-11	C-877	Total/NA	Solid	5035	
890-1365-12	C-878	Total/NA	Solid	5035	
890-1365-13	C-879	Total/NA	Solid	5035	
890-1365-14	C-880	Total/NA	Solid	5035	
890-1365-15	C-881	Total/NA	Solid	5035	
890-1365-16	C-882	Total/NA	Solid	5035	
890-1365-17	C-883	Total/NA	Solid	5035	
890-1365-18	C-884	Total/NA	Solid	5035	
890-1365-19	C-885	Total/NA	Solid	5035	
890-1365-20	C-886	Total/NA	Solid	5035	
MB 880-9444/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9444/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9444/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1365-1 MS	C-867	Total/NA	Solid	5035	
890-1365-1 MSD	C-867	Total/NA	Solid	5035	

Prep Batch: 9445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-21	C-887	Total/NA	Solid	5035	
890-1365-22	C-888	Total/NA	Solid	5035	
890-1365-23	C-889	Total/NA	Solid	5035	
890-1365-24	C-890	Total/NA	Solid	5035	
890-1365-25	C-891	Total/NA	Solid	5035	
890-1365-26	C-892	Total/NA	Solid	5035	
890-1365-27	C-893	Total/NA	Solid	5035	
890-1365-28	C-894	Total/NA	Solid	5035	
890-1365-29	C-895	Total/NA	Solid	5035	
890-1365-30	C-896	Total/NA	Solid	5035	
890-1365-31	C-897	Total/NA	Solid	5035	
890-1365-32	C-898	Total/NA	Solid	5035	
890-1365-33	C-899	Total/NA	Solid	5035	
890-1365-34	C-900	Total/NA	Solid	5035	
890-1365-35	C-901	Total/NA	Solid	5035	
890-1365-36	C-902	Total/NA	Solid	5035	
890-1365-37	C-903	Total/NA	Solid	5035	
890-1365-38	C-904	Total/NA	Solid	5035	
890-1365-39	C-905	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 9445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-40	C-906	Total/NA	Solid	5035	
MB 880-9445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1365-21 MS	C-887	Total/NA	Solid	5035	
890-1365-21 MSD	C-887	Total/NA	Solid	5035	

Prep Batch: 9446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-41	C-907	Total/NA	Solid	5035	
890-1365-42	C-908	Total/NA	Solid	5035	
890-1365-43	C-909	Total/NA	Solid	5035	
890-1365-44	C-910	Total/NA	Solid	5035	
890-1365-45	C-911	Total/NA	Solid	5035	
890-1365-46	C-912	Total/NA	Solid	5035	
890-1365-47	C-913	Total/NA	Solid	5035	
890-1365-48	C-914	Total/NA	Solid	5035	
890-1365-49	C-915	Total/NA	Solid	5035	
890-1365-50	C-916	Total/NA	Solid	5035	
890-1365-51	C-917	Total/NA	Solid	5035	
890-1365-52	C-918	Total/NA	Solid	5035	
890-1365-53	C-919	Total/NA	Solid	5035	
890-1365-54	C-920	Total/NA	Solid	5035	
890-1365-55	C-921	Total/NA	Solid	5035	
890-1365-56	C-922	Total/NA	Solid	5035	
890-1365-57	C-923	Total/NA	Solid	5035	
890-1365-58	C-924	Total/NA	Solid	5035	
890-1365-59	C-925	Total/NA	Solid	5035	
890-1365-60	C-926	Total/NA	Solid	5035	
MB 880-9446/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9446/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9446/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1365-41 MS	C-907	Total/NA	Solid	5035	
890-1365-41 MSD	C-907	Total/NA	Solid	5035	

Prep Batch: 9447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-61	C-927	Total/NA	Solid	5035	
890-1365-62	C-928	Total/NA	Solid	5035	
890-1365-63	C-929	Total/NA	Solid	5035	
890-1365-64	C-930	Total/NA	Solid	5035	
890-1365-65	C-931	Total/NA	Solid	5035	
890-1365-66	C-932	Total/NA	Solid	5035	
890-1365-67	C-933	Total/NA	Solid	5035	
890-1365-68	C-934	Total/NA	Solid	5035	
890-1365-69	C-935	Total/NA	Solid	5035	
890-1365-70	C-936	Total/NA	Solid	5035	
890-1365-71	C-937	Total/NA	Solid	5035	
890-1365-72	C-938	Total/NA	Solid	5035	
890-1365-73	C-939	Total/NA	Solid	5035	
890-1365-74	C-940	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 9447 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-75	C-941	Total/NA	Solid	5035	
890-1365-76	C-942	Total/NA	Solid	5035	
890-1365-77	C-943	Total/NA	Solid	5035	
890-1365-78	C-944	Total/NA	Solid	5035	
890-1365-79	C-945	Total/NA	Solid	5035	
MB 880-9447/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9447/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9447/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1365-61 MS	C-927	Total/NA	Solid	5035	
890-1365-61 MSD	C-927	Total/NA	Solid	5035	

Analysis Batch: 9521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-21	C-887	Total/NA	Solid	8021B	9445
890-1365-22	C-888	Total/NA	Solid	8021B	9445
890-1365-23	C-889	Total/NA	Solid	8021B	9445
890-1365-24	C-890	Total/NA	Solid	8021B	9445
890-1365-25	C-891	Total/NA	Solid	8021B	9445
890-1365-26	C-892	Total/NA	Solid	8021B	9445
890-1365-27	C-893	Total/NA	Solid	8021B	9445
890-1365-28	C-894	Total/NA	Solid	8021B	9445
890-1365-29	C-895	Total/NA	Solid	8021B	9445
890-1365-30	C-896	Total/NA	Solid	8021B	9445
890-1365-31	C-897	Total/NA	Solid	8021B	9445
890-1365-32	C-898	Total/NA	Solid	8021B	9445
890-1365-33	C-899	Total/NA	Solid	8021B	9445
890-1365-34	C-900	Total/NA	Solid	8021B	9445
890-1365-35	C-901	Total/NA	Solid	8021B	9445
890-1365-36	C-902	Total/NA	Solid	8021B	9445
890-1365-37	C-903	Total/NA	Solid	8021B	9445
890-1365-38	C-904	Total/NA	Solid	8021B	9445
890-1365-39	C-905	Total/NA	Solid	8021B	9445
890-1365-40	C-906	Total/NA	Solid	8021B	9445
890-1365-61	C-927	Total/NA	Solid	8021B	9447
890-1365-62	C-928	Total/NA	Solid	8021B	9447
890-1365-63	C-929	Total/NA	Solid	8021B	9447
890-1365-64	C-930	Total/NA	Solid	8021B	9447
890-1365-65	C-931	Total/NA	Solid	8021B	9447
890-1365-66	C-932	Total/NA	Solid	8021B	9447
890-1365-67	C-933	Total/NA	Solid	8021B	9447
890-1365-68	C-934	Total/NA	Solid	8021B	9447
890-1365-69	C-935	Total/NA	Solid	8021B	9447
890-1365-70	C-936	Total/NA	Solid	8021B	9447
890-1365-71	C-937	Total/NA	Solid	8021B	9447
890-1365-72	C-938	Total/NA	Solid	8021B	9447
890-1365-73	C-939	Total/NA	Solid	8021B	9447
890-1365-74	C-940	Total/NA	Solid	8021B	9447
890-1365-75	C-941	Total/NA	Solid	8021B	9447
890-1365-76	C-942	Total/NA	Solid	8021B	9447
890-1365-77	C-943	Total/NA	Solid	8021B	9447
890-1365-78	C-944	Total/NA	Solid	8021B	9447

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-79	C-945	Total/NA	Solid	8021B	9447
MB 880-9108/5-A	Method Blank	Total/NA	Solid	8021B	9108
MB 880-9445/5-A	Method Blank	Total/NA	Solid	8021B	9445
MB 880-9447/5-A	Method Blank	Total/NA	Solid	8021B	9447
LCS 880-9445/1-A	Lab Control Sample	Total/NA	Solid	8021B	9445
LCS 880-9447/1-A	Lab Control Sample	Total/NA	Solid	8021B	9447
LCSD 880-9445/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9445
LCSD 880-9447/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9447
890-1365-21 MS	C-887	Total/NA	Solid	8021B	9445
890-1365-21 MSD	C-887	Total/NA	Solid	8021B	9445
890-1365-61 MS	C-927	Total/NA	Solid	8021B	9447
890-1365-61 MSD	C-927	Total/NA	Solid	8021B	9447

Analysis Batch: 9525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-1	C-867	Total/NA	Solid	8021B	9444
890-1365-2	C-868	Total/NA	Solid	8021B	9444
890-1365-3	C-869	Total/NA	Solid	8021B	9444
890-1365-4	C-870	Total/NA	Solid	8021B	9444
890-1365-5	C-871	Total/NA	Solid	8021B	9444
890-1365-6	C-872	Total/NA	Solid	8021B	9444
890-1365-7	C-873	Total/NA	Solid	8021B	9444
890-1365-8	C-874	Total/NA	Solid	8021B	9444
890-1365-9	C-875	Total/NA	Solid	8021B	9444
890-1365-10	C-876	Total/NA	Solid	8021B	9444
890-1365-11	C-877	Total/NA	Solid	8021B	9444
890-1365-12	C-878	Total/NA	Solid	8021B	9444
890-1365-13	C-879	Total/NA	Solid	8021B	9444
890-1365-14	C-880	Total/NA	Solid	8021B	9444
890-1365-15	C-881	Total/NA	Solid	8021B	9444
890-1365-16	C-882	Total/NA	Solid	8021B	9444
890-1365-17	C-883	Total/NA	Solid	8021B	9444
890-1365-18	C-884	Total/NA	Solid	8021B	9444
890-1365-19	C-885	Total/NA	Solid	8021B	9444
890-1365-20	C-886	Total/NA	Solid	8021B	9444
MB 880-9444/5-A	Method Blank	Total/NA	Solid	8021B	9444
LCS 880-9444/1-A	Lab Control Sample	Total/NA	Solid	8021B	9444
LCSD 880-9444/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9444
890-1365-1 MS	C-867	Total/NA	Solid	8021B	9444
890-1365-1 MSD	C-867	Total/NA	Solid	8021B	9444

Analysis Batch: 9587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-41	C-907	Total/NA	Solid	8021B	9446
890-1365-42	C-908	Total/NA	Solid	8021B	9446
890-1365-43	C-909	Total/NA	Solid	8021B	9446
890-1365-44	C-910	Total/NA	Solid	8021B	9446
890-1365-45	C-911	Total/NA	Solid	8021B	9446
890-1365-46	C-912	Total/NA	Solid	8021B	9446
890-1365-47	C-913	Total/NA	Solid	8021B	9446
890-1365-48	C-914	Total/NA	Solid	8021B	9446

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9587 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-49	C-915	Total/NA	Solid	8021B	9446
890-1365-50	C-916	Total/NA	Solid	8021B	9446
890-1365-51	C-917	Total/NA	Solid	8021B	9446
890-1365-52	C-918	Total/NA	Solid	8021B	9446
890-1365-53	C-919	Total/NA	Solid	8021B	9446
890-1365-54	C-920	Total/NA	Solid	8021B	9446
890-1365-55	C-921	Total/NA	Solid	8021B	9446
890-1365-56	C-922	Total/NA	Solid	8021B	9446
890-1365-57	C-923	Total/NA	Solid	8021B	9446
890-1365-58	C-924	Total/NA	Solid	8021B	9446
890-1365-59	C-925	Total/NA	Solid	8021B	9446
890-1365-60	C-926	Total/NA	Solid	8021B	9446
MB 880-9446/5-A	Method Blank	Total/NA	Solid	8021B	9446
LCS 880-9446/1-A	Lab Control Sample	Total/NA	Solid	8021B	9446
LCSD 880-9446/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9446
890-1365-41 MS	C-907	Total/NA	Solid	8021B	9446
890-1365-41 MSD	C-907	Total/NA	Solid	8021B	9446

Analysis Batch: 9792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-1	C-867	Total/NA	Solid	Total BTEX	
890-1365-2	C-868	Total/NA	Solid	Total BTEX	
890-1365-3	C-869	Total/NA	Solid	Total BTEX	
890-1365-4	C-870	Total/NA	Solid	Total BTEX	
890-1365-5	C-871	Total/NA	Solid	Total BTEX	
890-1365-6	C-872	Total/NA	Solid	Total BTEX	
890-1365-7	C-873	Total/NA	Solid	Total BTEX	
890-1365-8	C-874	Total/NA	Solid	Total BTEX	
890-1365-9	C-875	Total/NA	Solid	Total BTEX	
890-1365-10	C-876	Total/NA	Solid	Total BTEX	
890-1365-11	C-877	Total/NA	Solid	Total BTEX	
890-1365-12	C-878	Total/NA	Solid	Total BTEX	
890-1365-13	C-879	Total/NA	Solid	Total BTEX	
890-1365-14	C-880	Total/NA	Solid	Total BTEX	
890-1365-15	C-881	Total/NA	Solid	Total BTEX	
890-1365-16	C-882	Total/NA	Solid	Total BTEX	
890-1365-17	C-883	Total/NA	Solid	Total BTEX	
890-1365-18	C-884	Total/NA	Solid	Total BTEX	
890-1365-19	C-885	Total/NA	Solid	Total BTEX	
890-1365-20	C-886	Total/NA	Solid	Total BTEX	
890-1365-21	C-887	Total/NA	Solid	Total BTEX	
890-1365-22	C-888	Total/NA	Solid	Total BTEX	
890-1365-23	C-889	Total/NA	Solid	Total BTEX	
890-1365-24	C-890	Total/NA	Solid	Total BTEX	
890-1365-25	C-891	Total/NA	Solid	Total BTEX	
890-1365-26	C-892	Total/NA	Solid	Total BTEX	
890-1365-27	C-893	Total/NA	Solid	Total BTEX	
890-1365-28	C-894	Total/NA	Solid	Total BTEX	
890-1365-29	C-895	Total/NA	Solid	Total BTEX	
890-1365-30	C-896	Total/NA	Solid	Total BTEX	
890-1365-31	C-897	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-32	C-898	Total/NA	Solid	Total BTEX	
890-1365-33	C-899	Total/NA	Solid	Total BTEX	
890-1365-34	C-900	Total/NA	Solid	Total BTEX	
890-1365-35	C-901	Total/NA	Solid	Total BTEX	
890-1365-36	C-902	Total/NA	Solid	Total BTEX	
890-1365-37	C-903	Total/NA	Solid	Total BTEX	
890-1365-38	C-904	Total/NA	Solid	Total BTEX	
890-1365-39	C-905	Total/NA	Solid	Total BTEX	
890-1365-40	C-906	Total/NA	Solid	Total BTEX	
890-1365-41	C-907	Total/NA	Solid	Total BTEX	
890-1365-42	C-908	Total/NA	Solid	Total BTEX	
890-1365-43	C-909	Total/NA	Solid	Total BTEX	
890-1365-44	C-910	Total/NA	Solid	Total BTEX	
890-1365-45	C-911	Total/NA	Solid	Total BTEX	
890-1365-46	C-912	Total/NA	Solid	Total BTEX	
890-1365-47	C-913	Total/NA	Solid	Total BTEX	
890-1365-48	C-914	Total/NA	Solid	Total BTEX	
890-1365-49	C-915	Total/NA	Solid	Total BTEX	
890-1365-50	C-916	Total/NA	Solid	Total BTEX	
890-1365-51	C-917	Total/NA	Solid	Total BTEX	
890-1365-52	C-918	Total/NA	Solid	Total BTEX	
890-1365-53	C-919	Total/NA	Solid	Total BTEX	
890-1365-54	C-920	Total/NA	Solid	Total BTEX	
890-1365-55	C-921	Total/NA	Solid	Total BTEX	
890-1365-56	C-922	Total/NA	Solid	Total BTEX	
890-1365-57	C-923	Total/NA	Solid	Total BTEX	
890-1365-58	C-924	Total/NA	Solid	Total BTEX	
890-1365-59	C-925	Total/NA	Solid	Total BTEX	
890-1365-60	C-926	Total/NA	Solid	Total BTEX	
890-1365-61	C-927	Total/NA	Solid	Total BTEX	
890-1365-62	C-928	Total/NA	Solid	Total BTEX	
890-1365-63	C-929	Total/NA	Solid	Total BTEX	
890-1365-64	C-930	Total/NA	Solid	Total BTEX	
890-1365-65	C-931	Total/NA	Solid	Total BTEX	
890-1365-66	C-932	Total/NA	Solid	Total BTEX	
890-1365-67	C-933	Total/NA	Solid	Total BTEX	
890-1365-68	C-934	Total/NA	Solid	Total BTEX	
890-1365-69	C-935	Total/NA	Solid	Total BTEX	
890-1365-70	C-936	Total/NA	Solid	Total BTEX	
890-1365-71	C-937	Total/NA	Solid	Total BTEX	
890-1365-72	C-938	Total/NA	Solid	Total BTEX	
890-1365-73	C-939	Total/NA	Solid	Total BTEX	
890-1365-74	C-940	Total/NA	Solid	Total BTEX	
890-1365-75	C-941	Total/NA	Solid	Total BTEX	
890-1365-76	C-942	Total/NA	Solid	Total BTEX	
890-1365-77	C-943	Total/NA	Solid	Total BTEX	
890-1365-78	C-944	Total/NA	Solid	Total BTEX	
890-1365-79	C-945	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 9166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-76	C-942	Total/NA	Solid	8015NM Prep	
890-1365-77	C-943	Total/NA	Solid	8015NM Prep	
890-1365-78	C-944	Total/NA	Solid	8015NM Prep	
890-1365-79	C-945	Total/NA	Solid	8015NM Prep	
MB 880-9166/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9166/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1360-A-37-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1360-A-37-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-76	C-942	Total/NA	Solid	8015B NM	9166
890-1365-77	C-943	Total/NA	Solid	8015B NM	9166
890-1365-78	C-944	Total/NA	Solid	8015B NM	9166
890-1365-79	C-945	Total/NA	Solid	8015B NM	9166
MB 880-9166/1-A	Method Blank	Total/NA	Solid	8015B NM	9166
LCS 880-9166/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9166
LCSD 880-9166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9166
890-1360-A-37-D MS	Matrix Spike	Total/NA	Solid	8015B NM	9166
890-1360-A-37-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9166

Analysis Batch: 9187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-1	C-867	Total/NA	Solid	8015 NM	
890-1365-2	C-868	Total/NA	Solid	8015 NM	
890-1365-3	C-869	Total/NA	Solid	8015 NM	
890-1365-4	C-870	Total/NA	Solid	8015 NM	
890-1365-5	C-871	Total/NA	Solid	8015 NM	
890-1365-6	C-872	Total/NA	Solid	8015 NM	
890-1365-7	C-873	Total/NA	Solid	8015 NM	
890-1365-8	C-874	Total/NA	Solid	8015 NM	
890-1365-9	C-875	Total/NA	Solid	8015 NM	
890-1365-10	C-876	Total/NA	Solid	8015 NM	
890-1365-11	C-877	Total/NA	Solid	8015 NM	
890-1365-12	C-878	Total/NA	Solid	8015 NM	
890-1365-13	C-879	Total/NA	Solid	8015 NM	
890-1365-14	C-880	Total/NA	Solid	8015 NM	
890-1365-15	C-881	Total/NA	Solid	8015 NM	
890-1365-16	C-882	Total/NA	Solid	8015 NM	
890-1365-17	C-883	Total/NA	Solid	8015 NM	
890-1365-18	C-884	Total/NA	Solid	8015 NM	
890-1365-19	C-885	Total/NA	Solid	8015 NM	
890-1365-20	C-886	Total/NA	Solid	8015 NM	
890-1365-21	C-887	Total/NA	Solid	8015 NM	
890-1365-22	C-888	Total/NA	Solid	8015 NM	
890-1365-23	C-889	Total/NA	Solid	8015 NM	
890-1365-24	C-890	Total/NA	Solid	8015 NM	
890-1365-25	C-891	Total/NA	Solid	8015 NM	
890-1365-26	C-892	Total/NA	Solid	8015 NM	
890-1365-27	C-893	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 9187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-28	C-894	Total/NA	Solid	8015 NM	
890-1365-29	C-895	Total/NA	Solid	8015 NM	
890-1365-30	C-896	Total/NA	Solid	8015 NM	
890-1365-31	C-897	Total/NA	Solid	8015 NM	
890-1365-32	C-898	Total/NA	Solid	8015 NM	
890-1365-33	C-899	Total/NA	Solid	8015 NM	
890-1365-34	C-900	Total/NA	Solid	8015 NM	
890-1365-35	C-901	Total/NA	Solid	8015 NM	
890-1365-36	C-902	Total/NA	Solid	8015 NM	
890-1365-37	C-903	Total/NA	Solid	8015 NM	
890-1365-38	C-904	Total/NA	Solid	8015 NM	
890-1365-39	C-905	Total/NA	Solid	8015 NM	
890-1365-40	C-906	Total/NA	Solid	8015 NM	
890-1365-41	C-907	Total/NA	Solid	8015 NM	
890-1365-42	C-908	Total/NA	Solid	8015 NM	
890-1365-43	C-909	Total/NA	Solid	8015 NM	
890-1365-44	C-910	Total/NA	Solid	8015 NM	
890-1365-45	C-911	Total/NA	Solid	8015 NM	
890-1365-46	C-912	Total/NA	Solid	8015 NM	
890-1365-47	C-913	Total/NA	Solid	8015 NM	
890-1365-48	C-914	Total/NA	Solid	8015 NM	
890-1365-49	C-915	Total/NA	Solid	8015 NM	
890-1365-50	C-916	Total/NA	Solid	8015 NM	
890-1365-51	C-917	Total/NA	Solid	8015 NM	
890-1365-52	C-918	Total/NA	Solid	8015 NM	
890-1365-53	C-919	Total/NA	Solid	8015 NM	
890-1365-54	C-920	Total/NA	Solid	8015 NM	
890-1365-55	C-921	Total/NA	Solid	8015 NM	
890-1365-56	C-922	Total/NA	Solid	8015 NM	
890-1365-57	C-923	Total/NA	Solid	8015 NM	
890-1365-58	C-924	Total/NA	Solid	8015 NM	
890-1365-59	C-925	Total/NA	Solid	8015 NM	
890-1365-60	C-926	Total/NA	Solid	8015 NM	
890-1365-61	C-927	Total/NA	Solid	8015 NM	
890-1365-62	C-928	Total/NA	Solid	8015 NM	
890-1365-63	C-929	Total/NA	Solid	8015 NM	
890-1365-64	C-930	Total/NA	Solid	8015 NM	
890-1365-65	C-931	Total/NA	Solid	8015 NM	
890-1365-66	C-932	Total/NA	Solid	8015 NM	
890-1365-67	C-933	Total/NA	Solid	8015 NM	
890-1365-68	C-934	Total/NA	Solid	8015 NM	
890-1365-69	C-935	Total/NA	Solid	8015 NM	
890-1365-70	C-936	Total/NA	Solid	8015 NM	
890-1365-71	C-937	Total/NA	Solid	8015 NM	
890-1365-72	C-938	Total/NA	Solid	8015 NM	
890-1365-73	C-939	Total/NA	Solid	8015 NM	
890-1365-74	C-940	Total/NA	Solid	8015 NM	
890-1365-75	C-941	Total/NA	Solid	8015 NM	
890-1365-76	C-942	Total/NA	Solid	8015 NM	
890-1365-77	C-943	Total/NA	Solid	8015 NM	
890-1365-78	C-944	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 9187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-79	C-945	Total/NA	Solid	8015 NM	

Prep Batch: 9217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-75	C-941	Total/NA	Solid	8015NM Prep	
MB 880-9217/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9217/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9217/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1361-A-1-L MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1361-A-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 9219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-1	C-867	Total/NA	Solid	8015NM Prep	
890-1365-2	C-868	Total/NA	Solid	8015NM Prep	
890-1365-3	C-869	Total/NA	Solid	8015NM Prep	
890-1365-4	C-870	Total/NA	Solid	8015NM Prep	
890-1365-5	C-871	Total/NA	Solid	8015NM Prep	
890-1365-6	C-872	Total/NA	Solid	8015NM Prep	
890-1365-7	C-873	Total/NA	Solid	8015NM Prep	
890-1365-8	C-874	Total/NA	Solid	8015NM Prep	
890-1365-9	C-875	Total/NA	Solid	8015NM Prep	
890-1365-10	C-876	Total/NA	Solid	8015NM Prep	
890-1365-11	C-877	Total/NA	Solid	8015NM Prep	
890-1365-12	C-878	Total/NA	Solid	8015NM Prep	
890-1365-13	C-879	Total/NA	Solid	8015NM Prep	
890-1365-14	C-880	Total/NA	Solid	8015NM Prep	
890-1365-15	C-881	Total/NA	Solid	8015NM Prep	
890-1365-16	C-882	Total/NA	Solid	8015NM Prep	
890-1365-17	C-883	Total/NA	Solid	8015NM Prep	
890-1365-18	C-884	Total/NA	Solid	8015NM Prep	
890-1365-19	C-885	Total/NA	Solid	8015NM Prep	
890-1365-20	C-886	Total/NA	Solid	8015NM Prep	
MB 880-9219/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9219/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9219/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1365-1 MS	C-867	Total/NA	Solid	8015NM Prep	
890-1365-1 MSD	C-867	Total/NA	Solid	8015NM Prep	

Prep Batch: 9220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-21	C-887	Total/NA	Solid	8015NM Prep	
890-1365-22	C-888	Total/NA	Solid	8015NM Prep	
890-1365-23	C-889	Total/NA	Solid	8015NM Prep	
890-1365-24	C-890	Total/NA	Solid	8015NM Prep	
890-1365-25	C-891	Total/NA	Solid	8015NM Prep	
890-1365-26	C-892	Total/NA	Solid	8015NM Prep	
890-1365-27	C-893	Total/NA	Solid	8015NM Prep	
890-1365-28	C-894	Total/NA	Solid	8015NM Prep	
890-1365-29	C-895	Total/NA	Solid	8015NM Prep	
890-1365-30	C-896	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 9220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-31	C-897	Total/NA	Solid	8015NM Prep	
890-1365-32	C-898	Total/NA	Solid	8015NM Prep	
890-1365-33	C-899	Total/NA	Solid	8015NM Prep	
890-1365-34	C-900	Total/NA	Solid	8015NM Prep	
890-1365-35	C-901	Total/NA	Solid	8015NM Prep	
890-1365-36	C-902	Total/NA	Solid	8015NM Prep	
890-1365-37	C-903	Total/NA	Solid	8015NM Prep	
890-1365-38	C-904	Total/NA	Solid	8015NM Prep	
890-1365-39	C-905	Total/NA	Solid	8015NM Prep	
890-1365-40	C-906	Total/NA	Solid	8015NM Prep	
MB 880-9220/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9220/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9220/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1365-21 MS	C-887	Total/NA	Solid	8015NM Prep	
890-1365-21 MSD	C-887	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-75	C-941	Total/NA	Solid	8015B NM	9217
MB 880-9217/1-A	Method Blank	Total/NA	Solid	8015B NM	9217
LCS 880-9217/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9217
LCSD 880-9217/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9217
890-1361-A-1-L MS	Matrix Spike	Total/NA	Solid	8015B NM	9217
890-1361-A-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9217

Analysis Batch: 9265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-1	C-867	Total/NA	Solid	8015B NM	9219
890-1365-2	C-868	Total/NA	Solid	8015B NM	9219
890-1365-3	C-869	Total/NA	Solid	8015B NM	9219
890-1365-4	C-870	Total/NA	Solid	8015B NM	9219
890-1365-5	C-871	Total/NA	Solid	8015B NM	9219
890-1365-6	C-872	Total/NA	Solid	8015B NM	9219
890-1365-7	C-873	Total/NA	Solid	8015B NM	9219
890-1365-8	C-874	Total/NA	Solid	8015B NM	9219
890-1365-9	C-875	Total/NA	Solid	8015B NM	9219
890-1365-10	C-876	Total/NA	Solid	8015B NM	9219
890-1365-11	C-877	Total/NA	Solid	8015B NM	9219
890-1365-12	C-878	Total/NA	Solid	8015B NM	9219
890-1365-13	C-879	Total/NA	Solid	8015B NM	9219
890-1365-14	C-880	Total/NA	Solid	8015B NM	9219
890-1365-15	C-881	Total/NA	Solid	8015B NM	9219
890-1365-16	C-882	Total/NA	Solid	8015B NM	9219
890-1365-17	C-883	Total/NA	Solid	8015B NM	9219
890-1365-18	C-884	Total/NA	Solid	8015B NM	9219
890-1365-19	C-885	Total/NA	Solid	8015B NM	9219
890-1365-20	C-886	Total/NA	Solid	8015B NM	9219
MB 880-9219/1-A	Method Blank	Total/NA	Solid	8015B NM	9219
LCS 880-9219/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9219
LCSD 880-9219/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9219
890-1365-1 MS	C-867	Total/NA	Solid	8015B NM	9219

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 9265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-1 MSD	C-867	Total/NA	Solid	8015B NM	9219

Analysis Batch: 9267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-21	C-887	Total/NA	Solid	8015B NM	9220
890-1365-22	C-888	Total/NA	Solid	8015B NM	9220
890-1365-23	C-889	Total/NA	Solid	8015B NM	9220
890-1365-24	C-890	Total/NA	Solid	8015B NM	9220
890-1365-25	C-891	Total/NA	Solid	8015B NM	9220
890-1365-26	C-892	Total/NA	Solid	8015B NM	9220
890-1365-27	C-893	Total/NA	Solid	8015B NM	9220
890-1365-28	C-894	Total/NA	Solid	8015B NM	9220
890-1365-29	C-895	Total/NA	Solid	8015B NM	9220
890-1365-30	C-896	Total/NA	Solid	8015B NM	9220
890-1365-31	C-897	Total/NA	Solid	8015B NM	9220
890-1365-32	C-898	Total/NA	Solid	8015B NM	9220
890-1365-33	C-899	Total/NA	Solid	8015B NM	9220
890-1365-34	C-900	Total/NA	Solid	8015B NM	9220
890-1365-35	C-901	Total/NA	Solid	8015B NM	9220
890-1365-36	C-902	Total/NA	Solid	8015B NM	9220
890-1365-37	C-903	Total/NA	Solid	8015B NM	9220
890-1365-38	C-904	Total/NA	Solid	8015B NM	9220
890-1365-39	C-905	Total/NA	Solid	8015B NM	9220
890-1365-40	C-906	Total/NA	Solid	8015B NM	9220
MB 880-9220/1-A	Method Blank	Total/NA	Solid	8015B NM	9220
LCS 880-9220/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9220
LCSD 880-9220/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9220
890-1365-21 MS	C-887	Total/NA	Solid	8015B NM	9220
890-1365-21 MSD	C-887	Total/NA	Solid	8015B NM	9220

Prep Batch: 9273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-41	C-907	Total/NA	Solid	8015NM Prep	
890-1365-42	C-908	Total/NA	Solid	8015NM Prep	
890-1365-43	C-909	Total/NA	Solid	8015NM Prep	
890-1365-44	C-910	Total/NA	Solid	8015NM Prep	
890-1365-45	C-911	Total/NA	Solid	8015NM Prep	
890-1365-46	C-912	Total/NA	Solid	8015NM Prep	
890-1365-47	C-913	Total/NA	Solid	8015NM Prep	
890-1365-48	C-914	Total/NA	Solid	8015NM Prep	
890-1365-49	C-915	Total/NA	Solid	8015NM Prep	
890-1365-50	C-916	Total/NA	Solid	8015NM Prep	
890-1365-51	C-917	Total/NA	Solid	8015NM Prep	
890-1365-52	C-918	Total/NA	Solid	8015NM Prep	
890-1365-53	C-919	Total/NA	Solid	8015NM Prep	
890-1365-54	C-920	Total/NA	Solid	8015NM Prep	
890-1365-55	C-921	Total/NA	Solid	8015NM Prep	
890-1365-56	C-922	Total/NA	Solid	8015NM Prep	
890-1365-57	C-923	Total/NA	Solid	8015NM Prep	
890-1365-58	C-924	Total/NA	Solid	8015NM Prep	
890-1365-59	C-925	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 9273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-60	C-926	Total/NA	Solid	8015NM Prep	
MB 880-9273/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9273/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9273/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1365-41 MS	C-907	Total/NA	Solid	8015NM Prep	
890-1365-41 MSD	C-907	Total/NA	Solid	8015NM Prep	

Prep Batch: 9277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-61	C-927	Total/NA	Solid	8015NM Prep	
890-1365-62	C-928	Total/NA	Solid	8015NM Prep	
890-1365-63	C-929	Total/NA	Solid	8015NM Prep	
890-1365-64	C-930	Total/NA	Solid	8015NM Prep	
890-1365-65	C-931	Total/NA	Solid	8015NM Prep	
890-1365-66	C-932	Total/NA	Solid	8015NM Prep	
890-1365-67	C-933	Total/NA	Solid	8015NM Prep	
890-1365-68	C-934	Total/NA	Solid	8015NM Prep	
890-1365-69	C-935	Total/NA	Solid	8015NM Prep	
890-1365-70	C-936	Total/NA	Solid	8015NM Prep	
890-1365-71	C-937	Total/NA	Solid	8015NM Prep	
890-1365-72	C-938	Total/NA	Solid	8015NM Prep	
890-1365-73	C-939	Total/NA	Solid	8015NM Prep	
890-1365-74	C-940	Total/NA	Solid	8015NM Prep	
MB 880-9277/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9277/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1365-61 MS	C-927	Total/NA	Solid	8015NM Prep	
890-1365-61 MSD	C-927	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-41	C-907	Total/NA	Solid	8015B NM	9273
890-1365-42	C-908	Total/NA	Solid	8015B NM	9273
890-1365-43	C-909	Total/NA	Solid	8015B NM	9273
890-1365-44	C-910	Total/NA	Solid	8015B NM	9273
890-1365-45	C-911	Total/NA	Solid	8015B NM	9273
890-1365-46	C-912	Total/NA	Solid	8015B NM	9273
890-1365-47	C-913	Total/NA	Solid	8015B NM	9273
890-1365-48	C-914	Total/NA	Solid	8015B NM	9273
890-1365-49	C-915	Total/NA	Solid	8015B NM	9273
890-1365-50	C-916	Total/NA	Solid	8015B NM	9273
890-1365-51	C-917	Total/NA	Solid	8015B NM	9273
890-1365-52	C-918	Total/NA	Solid	8015B NM	9273
890-1365-53	C-919	Total/NA	Solid	8015B NM	9273
890-1365-54	C-920	Total/NA	Solid	8015B NM	9273
890-1365-55	C-921	Total/NA	Solid	8015B NM	9273
890-1365-56	C-922	Total/NA	Solid	8015B NM	9273
890-1365-57	C-923	Total/NA	Solid	8015B NM	9273
890-1365-58	C-924	Total/NA	Solid	8015B NM	9273
890-1365-59	C-925	Total/NA	Solid	8015B NM	9273
890-1365-60	C-926	Total/NA	Solid	8015B NM	9273

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 9358 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9273/1-A	Method Blank	Total/NA	Solid	8015B NM	9273
LCS 880-9273/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9273
LCSD 880-9273/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9273
890-1365-41 MS	C-907	Total/NA	Solid	8015B NM	9273
890-1365-41 MSD	C-907	Total/NA	Solid	8015B NM	9273

Analysis Batch: 9360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-61	C-927	Total/NA	Solid	8015B NM	9277
890-1365-62	C-928	Total/NA	Solid	8015B NM	9277
890-1365-63	C-929	Total/NA	Solid	8015B NM	9277
890-1365-64	C-930	Total/NA	Solid	8015B NM	9277
890-1365-65	C-931	Total/NA	Solid	8015B NM	9277
890-1365-66	C-932	Total/NA	Solid	8015B NM	9277
890-1365-67	C-933	Total/NA	Solid	8015B NM	9277
890-1365-68	C-934	Total/NA	Solid	8015B NM	9277
890-1365-69	C-935	Total/NA	Solid	8015B NM	9277
890-1365-70	C-936	Total/NA	Solid	8015B NM	9277
890-1365-71	C-937	Total/NA	Solid	8015B NM	9277
890-1365-72	C-938	Total/NA	Solid	8015B NM	9277
890-1365-73	C-939	Total/NA	Solid	8015B NM	9277
890-1365-74	C-940	Total/NA	Solid	8015B NM	9277
MB 880-9277/1-A	Method Blank	Total/NA	Solid	8015B NM	9277
LCS 880-9277/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9277
LCSD 880-9277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9277
890-1365-61 MS	C-927	Total/NA	Solid	8015B NM	9277
890-1365-61 MSD	C-927	Total/NA	Solid	8015B NM	9277

HPLC/IC

Leach Batch: 9137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-1	C-867	Soluble	Solid	DI Leach	
890-1365-2	C-868	Soluble	Solid	DI Leach	
890-1365-3	C-869	Soluble	Solid	DI Leach	
890-1365-4	C-870	Soluble	Solid	DI Leach	
890-1365-5	C-871	Soluble	Solid	DI Leach	
890-1365-6	C-872	Soluble	Solid	DI Leach	
890-1365-7	C-873	Soluble	Solid	DI Leach	
890-1365-8	C-874	Soluble	Solid	DI Leach	
890-1365-9	C-875	Soluble	Solid	DI Leach	
890-1365-10	C-876	Soluble	Solid	DI Leach	
890-1365-11	C-877	Soluble	Solid	DI Leach	
890-1365-12	C-878	Soluble	Solid	DI Leach	
890-1365-13	C-879	Soluble	Solid	DI Leach	
890-1365-14	C-880	Soluble	Solid	DI Leach	
890-1365-15	C-881	Soluble	Solid	DI Leach	
890-1365-16	C-882	Soluble	Solid	DI Leach	
890-1365-17	C-883	Soluble	Solid	DI Leach	
890-1365-18	C-884	Soluble	Solid	DI Leach	
890-1365-19	C-885	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 9137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-20	C-886	Soluble	Solid	DI Leach	
MB 880-9137/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9137/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9137/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1365-1 MS	C-867	Soluble	Solid	DI Leach	
890-1365-1 MSD	C-867	Soluble	Solid	DI Leach	
890-1365-11 MS	C-877	Soluble	Solid	DI Leach	
890-1365-11 MSD	C-877	Soluble	Solid	DI Leach	

Leach Batch: 9195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-21	C-887	Soluble	Solid	DI Leach	
890-1365-22	C-888	Soluble	Solid	DI Leach	
890-1365-23	C-889	Soluble	Solid	DI Leach	
890-1365-24	C-890	Soluble	Solid	DI Leach	
890-1365-25	C-891	Soluble	Solid	DI Leach	
890-1365-26	C-892	Soluble	Solid	DI Leach	
MB 880-9195/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9195/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9195/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1364-A-26-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1364-A-26-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 9196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-27	C-893	Soluble	Solid	DI Leach	
890-1365-28	C-894	Soluble	Solid	DI Leach	
890-1365-29	C-895	Soluble	Solid	DI Leach	
890-1365-30	C-896	Soluble	Solid	DI Leach	
890-1365-31	C-897	Soluble	Solid	DI Leach	
890-1365-32	C-898	Soluble	Solid	DI Leach	
890-1365-33	C-899	Soluble	Solid	DI Leach	
890-1365-34	C-900	Soluble	Solid	DI Leach	
890-1365-35	C-901	Soluble	Solid	DI Leach	
890-1365-36	C-902	Soluble	Solid	DI Leach	
890-1365-37	C-903	Soluble	Solid	DI Leach	
890-1365-38	C-904	Soluble	Solid	DI Leach	
MB 880-9196/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9196/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9196/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1365-29 MS	C-895	Soluble	Solid	DI Leach	
890-1365-29 MSD	C-895	Soluble	Solid	DI Leach	

Leach Batch: 9197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-39	C-905	Soluble	Solid	DI Leach	
890-1365-40	C-906	Soluble	Solid	DI Leach	
890-1365-41	C-907	Soluble	Solid	DI Leach	
890-1365-42	C-908	Soluble	Solid	DI Leach	
890-1365-43	C-909	Soluble	Solid	DI Leach	
890-1365-44	C-910	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 9197 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-45	C-911	Soluble	Solid	DI Leach	
890-1365-46	C-912	Soluble	Solid	DI Leach	
890-1365-47	C-913	Soluble	Solid	DI Leach	
MB 880-9197/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9197/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9197/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1365-41 MS	C-907	Soluble	Solid	DI Leach	
890-1365-41 MSD	C-907	Soluble	Solid	DI Leach	

Leach Batch: 9198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-48	C-914	Soluble	Solid	DI Leach	
890-1365-49	C-915	Soluble	Solid	DI Leach	
890-1365-50	C-916	Soluble	Solid	DI Leach	
890-1365-51	C-917	Soluble	Solid	DI Leach	
890-1365-52	C-918	Soluble	Solid	DI Leach	
890-1365-53	C-919	Soluble	Solid	DI Leach	
890-1365-54	C-920	Soluble	Solid	DI Leach	
890-1365-55	C-921	Soluble	Solid	DI Leach	
890-1365-56	C-922	Soluble	Solid	DI Leach	
890-1365-57	C-923	Soluble	Solid	DI Leach	
890-1365-58	C-924	Soluble	Solid	DI Leach	
890-1365-59	C-925	Soluble	Solid	DI Leach	
890-1365-60	C-926	Soluble	Solid	DI Leach	
890-1365-61	C-927	Soluble	Solid	DI Leach	
890-1365-62	C-928	Soluble	Solid	DI Leach	
890-1365-63	C-929	Soluble	Solid	DI Leach	
890-1365-64	C-930	Soluble	Solid	DI Leach	
890-1365-65	C-931	Soluble	Solid	DI Leach	
890-1365-66	C-932	Soluble	Solid	DI Leach	
890-1365-67	C-933	Soluble	Solid	DI Leach	
MB 880-9198/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9198/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9198/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1365-48 MS	C-914	Soluble	Solid	DI Leach	
890-1365-48 MSD	C-914	Soluble	Solid	DI Leach	
890-1365-58 MS	C-924	Soluble	Solid	DI Leach	
890-1365-58 MSD	C-924	Soluble	Solid	DI Leach	

Leach Batch: 9200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-68	C-934	Soluble	Solid	DI Leach	
890-1365-69	C-935	Soluble	Solid	DI Leach	
890-1365-70	C-936	Soluble	Solid	DI Leach	
890-1365-71	C-937	Soluble	Solid	DI Leach	
890-1365-72	C-938	Soluble	Solid	DI Leach	
890-1365-73	C-939	Soluble	Solid	DI Leach	
890-1365-74	C-940	Soluble	Solid	DI Leach	
890-1365-75	C-941	Soluble	Solid	DI Leach	
890-1365-76	C-942	Soluble	Solid	DI Leach	
890-1365-77	C-943	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 9200 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-78	C-944	Soluble	Solid	DI Leach	
890-1365-79	C-945	Soluble	Solid	DI Leach	
MB 880-9200/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9200/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9200/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1365-70 MS	C-936	Soluble	Solid	DI Leach	
890-1365-70 MSD	C-936	Soluble	Solid	DI Leach	

Analysis Batch: 9316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-1	C-867	Soluble	Solid	300.0	9137
890-1365-2	C-868	Soluble	Solid	300.0	9137
890-1365-3	C-869	Soluble	Solid	300.0	9137
890-1365-4	C-870	Soluble	Solid	300.0	9137
890-1365-5	C-871	Soluble	Solid	300.0	9137
890-1365-6	C-872	Soluble	Solid	300.0	9137
890-1365-7	C-873	Soluble	Solid	300.0	9137
890-1365-8	C-874	Soluble	Solid	300.0	9137
890-1365-9	C-875	Soluble	Solid	300.0	9137
890-1365-10	C-876	Soluble	Solid	300.0	9137
890-1365-11	C-877	Soluble	Solid	300.0	9137
890-1365-12	C-878	Soluble	Solid	300.0	9137
890-1365-13	C-879	Soluble	Solid	300.0	9137
890-1365-14	C-880	Soluble	Solid	300.0	9137
890-1365-15	C-881	Soluble	Solid	300.0	9137
890-1365-16	C-882	Soluble	Solid	300.0	9137
890-1365-17	C-883	Soluble	Solid	300.0	9137
890-1365-18	C-884	Soluble	Solid	300.0	9137
890-1365-19	C-885	Soluble	Solid	300.0	9137
890-1365-20	C-886	Soluble	Solid	300.0	9137
MB 880-9137/1-A	Method Blank	Soluble	Solid	300.0	9137
LCS 880-9137/2-A	Lab Control Sample	Soluble	Solid	300.0	9137
LCSD 880-9137/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9137
890-1365-1 MS	C-867	Soluble	Solid	300.0	9137
890-1365-1 MSD	C-867	Soluble	Solid	300.0	9137
890-1365-11 MS	C-877	Soluble	Solid	300.0	9137
890-1365-11 MSD	C-877	Soluble	Solid	300.0	9137

Analysis Batch: 9363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-21	C-887	Soluble	Solid	300.0	9195
890-1365-22	C-888	Soluble	Solid	300.0	9195
890-1365-23	C-889	Soluble	Solid	300.0	9195
890-1365-24	C-890	Soluble	Solid	300.0	9195
890-1365-25	C-891	Soluble	Solid	300.0	9195
890-1365-26	C-892	Soluble	Solid	300.0	9195
MB 880-9195/1-A	Method Blank	Soluble	Solid	300.0	9195
LCS 880-9195/2-A	Lab Control Sample	Soluble	Solid	300.0	9195
LCSD 880-9195/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9195
890-1364-A-26-C MS	Matrix Spike	Soluble	Solid	300.0	9195
890-1364-A-26-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9195

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 9364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-27	C-893	Soluble	Solid	300.0	9196
890-1365-28	C-894	Soluble	Solid	300.0	9196
890-1365-29	C-895	Soluble	Solid	300.0	9196
890-1365-30	C-896	Soluble	Solid	300.0	9196
890-1365-31	C-897	Soluble	Solid	300.0	9196
890-1365-32	C-898	Soluble	Solid	300.0	9196
890-1365-33	C-899	Soluble	Solid	300.0	9196
890-1365-34	C-900	Soluble	Solid	300.0	9196
890-1365-35	C-901	Soluble	Solid	300.0	9196
890-1365-36	C-902	Soluble	Solid	300.0	9196
890-1365-37	C-903	Soluble	Solid	300.0	9196
890-1365-38	C-904	Soluble	Solid	300.0	9196
MB 880-9196/1-A	Method Blank	Soluble	Solid	300.0	9196
LCS 880-9196/2-A	Lab Control Sample	Soluble	Solid	300.0	9196
LCSD 880-9196/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9196
890-1365-29 MS	C-895	Soluble	Solid	300.0	9196
890-1365-29 MSD	C-895	Soluble	Solid	300.0	9196

Analysis Batch: 9365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-39	C-905	Soluble	Solid	300.0	9197
890-1365-40	C-906	Soluble	Solid	300.0	9197
890-1365-41	C-907	Soluble	Solid	300.0	9197
890-1365-42	C-908	Soluble	Solid	300.0	9197
890-1365-43	C-909	Soluble	Solid	300.0	9197
890-1365-44	C-910	Soluble	Solid	300.0	9197
890-1365-45	C-911	Soluble	Solid	300.0	9197
890-1365-46	C-912	Soluble	Solid	300.0	9197
890-1365-47	C-913	Soluble	Solid	300.0	9197
MB 880-9197/1-A	Method Blank	Soluble	Solid	300.0	9197
LCS 880-9197/2-A	Lab Control Sample	Soluble	Solid	300.0	9197
LCSD 880-9197/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9197
890-1365-41 MS	C-907	Soluble	Solid	300.0	9197
890-1365-41 MSD	C-907	Soluble	Solid	300.0	9197

Analysis Batch: 9376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-48	C-914	Soluble	Solid	300.0	9198
890-1365-49	C-915	Soluble	Solid	300.0	9198
890-1365-50	C-916	Soluble	Solid	300.0	9198
890-1365-51	C-917	Soluble	Solid	300.0	9198
890-1365-52	C-918	Soluble	Solid	300.0	9198
890-1365-53	C-919	Soluble	Solid	300.0	9198
890-1365-54	C-920	Soluble	Solid	300.0	9198
890-1365-55	C-921	Soluble	Solid	300.0	9198
890-1365-56	C-922	Soluble	Solid	300.0	9198
890-1365-57	C-923	Soluble	Solid	300.0	9198
890-1365-58	C-924	Soluble	Solid	300.0	9198
890-1365-59	C-925	Soluble	Solid	300.0	9198
890-1365-60	C-926	Soluble	Solid	300.0	9198
890-1365-61	C-927	Soluble	Solid	300.0	9198

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 9376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-62	C-928	Soluble	Solid	300.0	9198
890-1365-63	C-929	Soluble	Solid	300.0	9198
890-1365-64	C-930	Soluble	Solid	300.0	9198
890-1365-65	C-931	Soluble	Solid	300.0	9198
890-1365-66	C-932	Soluble	Solid	300.0	9198
890-1365-67	C-933	Soluble	Solid	300.0	9198
MB 880-9198/1-A	Method Blank	Soluble	Solid	300.0	9198
LCS 880-9198/2-A	Lab Control Sample	Soluble	Solid	300.0	9198
LCSD 880-9198/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9198
890-1365-48 MS	C-914	Soluble	Solid	300.0	9198
890-1365-48 MSD	C-914	Soluble	Solid	300.0	9198
890-1365-58 MS	C-924	Soluble	Solid	300.0	9198
890-1365-58 MSD	C-924	Soluble	Solid	300.0	9198

Analysis Batch: 9377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1365-68	C-934	Soluble	Solid	300.0	9200
890-1365-69	C-935	Soluble	Solid	300.0	9200
890-1365-70	C-936	Soluble	Solid	300.0	9200
890-1365-71	C-937	Soluble	Solid	300.0	9200
890-1365-72	C-938	Soluble	Solid	300.0	9200
890-1365-73	C-939	Soluble	Solid	300.0	9200
890-1365-74	C-940	Soluble	Solid	300.0	9200
890-1365-75	C-941	Soluble	Solid	300.0	9200
890-1365-76	C-942	Soluble	Solid	300.0	9200
890-1365-77	C-943	Soluble	Solid	300.0	9200
890-1365-78	C-944	Soluble	Solid	300.0	9200
890-1365-79	C-945	Soluble	Solid	300.0	9200
MB 880-9200/1-A	Method Blank	Soluble	Solid	300.0	9200
LCS 880-9200/2-A	Lab Control Sample	Soluble	Solid	300.0	9200
LCSD 880-9200/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9200
890-1365-70 MS	C-936	Soluble	Solid	300.0	9200
890-1365-70 MSD	C-936	Soluble	Solid	300.0	9200

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-867

Lab Sample ID: 890-1365-1

Date Collected: 10/05/21 10:07

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 15:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 11:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 00:53	CH	XEN MID

Client Sample ID: C-868

Lab Sample ID: 890-1365-2

Date Collected: 10/05/21 10:08

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 15:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 12:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 01:11	CH	XEN MID

Client Sample ID: C-869

Lab Sample ID: 890-1365-3

Date Collected: 10/05/21 10:09

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 16:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 13:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 01:16	CH	XEN MID

Client Sample ID: C-870

Lab Sample ID: 890-1365-4

Date Collected: 10/05/21 10:10

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 16:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-870

Lab Sample ID: 890-1365-4

Date Collected: 10/05/21 10:10

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 01:22	CH	XEN MID

Client Sample ID: C-871

Lab Sample ID: 890-1365-5

Date Collected: 10/05/21 10:11

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 16:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 13:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 01:28	CH	XEN MID

Client Sample ID: C-872

Lab Sample ID: 890-1365-6

Date Collected: 10/05/21 10:12

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 17:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 14:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 01:44	CH	XEN MID

Client Sample ID: C-873

Lab Sample ID: 890-1365-7

Date Collected: 10/05/21 10:13

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 17:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 14:37	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-873

Date Collected: 10/05/21 10:13

Date Received: 10/05/21 15:47

Lab Sample ID: 890-1365-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 01:50	CH	XEN MID

Client Sample ID: C-874

Date Collected: 10/05/21 10:14

Date Received: 10/05/21 15:47

Lab Sample ID: 890-1365-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 17:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 14:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 01:56	CH	XEN MID

Client Sample ID: C-875

Date Collected: 10/05/21 10:15

Date Received: 10/05/21 15:47

Lab Sample ID: 890-1365-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 18:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 15:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 02:01	CH	XEN MID

Client Sample ID: C-876

Date Collected: 10/05/21 10:16

Date Received: 10/05/21 15:47

Lab Sample ID: 890-1365-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 18:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 15:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 02:07	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-877

Lab Sample ID: 890-1365-11

Date Collected: 10/05/21 10:17

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 19:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 16:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 02:12	CH	XEN MID

Client Sample ID: C-878

Lab Sample ID: 890-1365-12

Date Collected: 10/05/21 10:18

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 20:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 16:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 02:29	CH	XEN MID

Client Sample ID: C-879

Lab Sample ID: 890-1365-13

Date Collected: 10/05/21 10:19

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 20:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 17:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 02:35	CH	XEN MID

Client Sample ID: C-880

Lab Sample ID: 890-1365-14

Date Collected: 10/05/21 10:20

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 20:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-880

Lab Sample ID: 890-1365-14

Date Collected: 10/05/21 10:20

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 18:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 02:52	CH	XEN MID

Client Sample ID: C-881

Lab Sample ID: 890-1365-15

Date Collected: 10/05/21 10:21

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 21:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 19:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 02:57	CH	XEN MID

Client Sample ID: C-882

Lab Sample ID: 890-1365-16

Date Collected: 10/05/21 10:22

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 21:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 19:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 03:03	CH	XEN MID

Client Sample ID: C-883

Lab Sample ID: 890-1365-17

Date Collected: 10/05/21 10:23

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 21:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 19:44	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-883

Lab Sample ID: 890-1365-17

Date Collected: 10/05/21 10:23

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 03:09	CH	XEN MID

Client Sample ID: C-884

Lab Sample ID: 890-1365-18

Date Collected: 10/05/21 10:24

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 22:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 20:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 03:14	CH	XEN MID

Client Sample ID: C-885

Lab Sample ID: 890-1365-19

Date Collected: 10/05/21 10:25

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 22:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 20:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 03:20	CH	XEN MID

Client Sample ID: C-886

Lab Sample ID: 890-1365-20

Date Collected: 10/05/21 10:26

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9444	10/14/21 10:14	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9525	10/15/21 23:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9219	10/11/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9265	10/12/21 20:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9137	10/08/21 16:01	CH	XEN MID
Soluble	Analysis	300.0		1			9316	10/13/21 03:25	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-887

Lab Sample ID: 890-1365-21

Date Collected: 10/05/21 10:27

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 01:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 11:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 11:45	CH	XEN MID

Client Sample ID: C-888

Lab Sample ID: 890-1365-22

Date Collected: 10/05/21 10:28

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 01:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 12:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 11:50	CH	XEN MID

Client Sample ID: C-889

Lab Sample ID: 890-1365-23

Date Collected: 10/05/21 10:29

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 02:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 13:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 11:56	CH	XEN MID

Client Sample ID: C-890

Lab Sample ID: 890-1365-24

Date Collected: 10/05/21 10:30

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 02:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-890

Lab Sample ID: 890-1365-24

Date Collected: 10/05/21 10:30

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 12:01	CH	XEN MID

Client Sample ID: C-891

Lab Sample ID: 890-1365-25

Date Collected: 10/05/21 10:31

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 02:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 13:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 12:07	CH	XEN MID

Client Sample ID: C-892

Lab Sample ID: 890-1365-26

Date Collected: 10/05/21 10:32

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 03:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 14:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9195	10/11/21 11:20	CH	XEN MID
Soluble	Analysis	300.0		1			9363	10/13/21 12:13	CH	XEN MID

Client Sample ID: C-893

Lab Sample ID: 890-1365-27

Date Collected: 10/05/21 10:33

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 03:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 14:37	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-893

Lab Sample ID: 890-1365-27

Date Collected: 10/05/21 10:33

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	9196	10/11/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			9364	10/13/21 14:05	CH	XEN MID

Client Sample ID: C-894

Lab Sample ID: 890-1365-28

Date Collected: 10/05/21 10:34

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 03:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 14:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9196	10/11/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			9364	10/13/21 14:11	CH	XEN MID

Client Sample ID: C-895

Lab Sample ID: 890-1365-29

Date Collected: 10/05/21 10:35

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 04:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 15:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9196	10/11/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		5			9364	10/13/21 14:16	CH	XEN MID

Client Sample ID: C-896

Lab Sample ID: 890-1365-30

Date Collected: 10/05/21 10:36

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 04:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 15:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9196	10/11/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		5			9364	10/13/21 14:33	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-897

Lab Sample ID: 890-1365-31

Date Collected: 10/05/21 10:37

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 05:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 16:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9196	10/11/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			9364	10/13/21 14:39	CH	XEN MID

Client Sample ID: C-898

Lab Sample ID: 890-1365-32

Date Collected: 10/05/21 10:38

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 06:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 16:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9196	10/11/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			9364	10/13/21 14:56	CH	XEN MID

Client Sample ID: C-899

Lab Sample ID: 890-1365-33

Date Collected: 10/05/21 10:39

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 06:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 17:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9196	10/11/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			9364	10/13/21 15:01	CH	XEN MID

Client Sample ID: C-900

Lab Sample ID: 890-1365-34

Date Collected: 10/05/21 10:40

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 06:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-900

Lab Sample ID: 890-1365-34

Date Collected: 10/05/21 10:40

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 18:40	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9196	10/11/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			9364	10/13/21 15:07	CH	XEN MID

Client Sample ID: C-901

Lab Sample ID: 890-1365-35

Date Collected: 10/05/21 10:41

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 07:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 19:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9196	10/11/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			9364	10/13/21 15:13	CH	XEN MID

Client Sample ID: C-902

Lab Sample ID: 890-1365-36

Date Collected: 10/05/21 10:42

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 07:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 19:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9196	10/11/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			9364	10/13/21 15:18	CH	XEN MID

Client Sample ID: C-903

Lab Sample ID: 890-1365-37

Date Collected: 10/05/21 10:43

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 07:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 19:44	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-903

Lab Sample ID: 890-1365-37

Date Collected: 10/05/21 10:43

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	9196	10/11/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			9364	10/13/21 15:24	CH	XEN MID

Client Sample ID: C-904

Lab Sample ID: 890-1365-38

Date Collected: 10/05/21 14:34

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 08:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 20:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9196	10/11/21 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			9364	10/13/21 15:29	CH	XEN MID

Client Sample ID: C-905

Lab Sample ID: 890-1365-39

Date Collected: 10/05/21 14:35

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 08:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 20:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9197	10/11/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1			9365	10/13/21 21:31	CH	XEN MID

Client Sample ID: C-906

Lab Sample ID: 890-1365-40

Date Collected: 10/05/21 14:36

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9445	10/14/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 08:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9220	10/11/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/12/21 20:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9197	10/11/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1			9365	10/13/21 21:39	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-907

Lab Sample ID: 890-1365-41

Date Collected: 10/05/21 14:37

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 15:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 21:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9197	10/11/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1			9365	10/13/21 21:46	CH	XEN MID

Client Sample ID: C-908

Lab Sample ID: 890-1365-42

Date Collected: 10/05/21 14:38

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 15:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 22:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9197	10/11/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		5			9365	10/13/21 22:07	CH	XEN MID

Client Sample ID: C-909

Lab Sample ID: 890-1365-43

Date Collected: 10/05/21 14:39

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 16:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 22:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9197	10/11/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1			9365	10/13/21 22:15	CH	XEN MID

Client Sample ID: C-910

Lab Sample ID: 890-1365-44

Date Collected: 10/05/21 14:40

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 16:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-910

Lab Sample ID: 890-1365-44

Date Collected: 10/05/21 14:40

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 22:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9197	10/11/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		5			9365	10/13/21 22:36	CH	XEN MID

Client Sample ID: C-911

Lab Sample ID: 890-1365-45

Date Collected: 10/05/21 14:41

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 16:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 23:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9197	10/11/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1			9365	10/13/21 22:43	CH	XEN MID

Client Sample ID: C-912

Lab Sample ID: 890-1365-46

Date Collected: 10/05/21 14:42

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 17:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 23:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9197	10/11/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1			9365	10/13/21 22:50	CH	XEN MID

Client Sample ID: C-913

Lab Sample ID: 890-1365-47

Date Collected: 10/05/21 14:43

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 17:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 23:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-913

Lab Sample ID: 890-1365-47

Date Collected: 10/05/21 14:43

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	9197	10/11/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1			9365	10/13/21 22:57	CH	XEN MID

Client Sample ID: C-914

Lab Sample ID: 890-1365-48

Date Collected: 10/05/21 14:44

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 18:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 00:18	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 16:36	CH	XEN MID

Client Sample ID: C-915

Lab Sample ID: 890-1365-49

Date Collected: 10/05/21 11:45

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 18:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 00:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 16:53	CH	XEN MID

Client Sample ID: C-916

Lab Sample ID: 890-1365-50

Date Collected: 10/05/21 11:46

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 18:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 01:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 16:58	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-917

Lab Sample ID: 890-1365-51

Date Collected: 10/05/21 11:47

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 20:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 01:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 17:04	CH	XEN MID

Client Sample ID: C-918

Lab Sample ID: 890-1365-52

Date Collected: 10/05/21 11:48

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 20:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 02:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 17:09	CH	XEN MID

Client Sample ID: C-919

Lab Sample ID: 890-1365-53

Date Collected: 10/05/21 11:49

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 20:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 02:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 17:26	CH	XEN MID

Client Sample ID: C-920

Lab Sample ID: 890-1365-54

Date Collected: 10/05/21 11:50

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 21:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-920

Lab Sample ID: 890-1365-54

Date Collected: 10/05/21 11:50

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 02:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 17:32	CH	XEN MID

Client Sample ID: C-921

Lab Sample ID: 890-1365-55

Date Collected: 10/05/21 11:51

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 21:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 03:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 17:38	CH	XEN MID

Client Sample ID: C-922

Lab Sample ID: 890-1365-56

Date Collected: 10/05/21 11:52

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 21:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 03:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 17:43	CH	XEN MID

Client Sample ID: C-923

Lab Sample ID: 890-1365-57

Date Collected: 10/05/21 11:53

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 22:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 03:48	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-923

Lab Sample ID: 890-1365-57

Date Collected: 10/05/21 11:53

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 17:49	CH	XEN MID

Client Sample ID: C-924

Lab Sample ID: 890-1365-58

Date Collected: 10/05/21 11:54

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 22:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 04:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 17:54	CH	XEN MID

Client Sample ID: C-925

Lab Sample ID: 890-1365-59

Date Collected: 10/05/21 11:55

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 22:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 04:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 18:11	CH	XEN MID

Client Sample ID: C-926

Lab Sample ID: 890-1365-60

Date Collected: 10/05/21 11:56

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9446	10/14/21 10:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9587	10/16/21 23:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9273	10/12/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/14/21 04:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 18:17	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-927

Lab Sample ID: 890-1365-61

Date Collected: 10/05/21 11:57

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 12:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 21:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 18:34	CH	XEN MID

Client Sample ID: C-928

Lab Sample ID: 890-1365-62

Date Collected: 10/05/21 11:58

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 13:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 22:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 18:39	CH	XEN MID

Client Sample ID: C-929

Lab Sample ID: 890-1365-63

Date Collected: 10/05/21 11:59

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 13:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 22:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 18:45	CH	XEN MID

Client Sample ID: C-930

Lab Sample ID: 890-1365-64

Date Collected: 10/05/21 12:00

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 13:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-930

Lab Sample ID: 890-1365-64

Date Collected: 10/05/21 12:00

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 22:52	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 18:50	CH	XEN MID

Client Sample ID: C-931

Lab Sample ID: 890-1365-65

Date Collected: 10/05/21 12:01

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 14:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 23:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 18:56	CH	XEN MID

Client Sample ID: C-932

Lab Sample ID: 890-1365-66

Date Collected: 10/05/21 12:02

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 14:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 23:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 19:02	CH	XEN MID

Client Sample ID: C-933

Lab Sample ID: 890-1365-67

Date Collected: 10/05/21 12:03

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 14:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 23:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-933

Lab Sample ID: 890-1365-67

Date Collected: 10/05/21 12:03

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	9198	10/11/21 11:26	CH	XEN MID
Soluble	Analysis	300.0		1			9376	10/13/21 19:07	CH	XEN MID

Client Sample ID: C-934

Lab Sample ID: 890-1365-68

Date Collected: 10/05/21 12:04

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 15:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/14/21 00:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9200	10/11/21 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			9377	10/13/21 21:42	CH	XEN MID

Client Sample ID: C-935

Lab Sample ID: 890-1365-69

Date Collected: 10/05/21 12:05

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 15:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/14/21 00:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9200	10/11/21 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			9377	10/13/21 21:49	CH	XEN MID

Client Sample ID: C-936

Lab Sample ID: 890-1365-70

Date Collected: 10/05/21 12:06

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 15:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/14/21 01:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9200	10/11/21 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			9377	10/13/21 21:55	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-937

Lab Sample ID: 890-1365-71

Date Collected: 10/05/21 12:07

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 17:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/14/21 01:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9200	10/11/21 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			9377	10/13/21 22:14	CH	XEN MID

Client Sample ID: C-938

Lab Sample ID: 890-1365-72

Date Collected: 10/05/21 12:08

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 17:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/14/21 02:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9200	10/11/21 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			9377	10/13/21 22:20	CH	XEN MID

Client Sample ID: C-939

Lab Sample ID: 890-1365-73

Date Collected: 10/05/21 12:09

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 18:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/14/21 02:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9200	10/11/21 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			9377	10/13/21 22:39	CH	XEN MID

Client Sample ID: C-940

Lab Sample ID: 890-1365-74

Date Collected: 10/05/21 12:10

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 18:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-940

Lab Sample ID: 890-1365-74

Date Collected: 10/05/21 12:10

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9277	10/12/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/14/21 02:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9200	10/11/21 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			9377	10/13/21 22:45	CH	XEN MID

Client Sample ID: C-941

Lab Sample ID: 890-1365-75

Date Collected: 10/05/21 12:11

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 18:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9261	10/12/21 19:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9200	10/11/21 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			9377	10/13/21 22:51	CH	XEN MID

Client Sample ID: C-942

Lab Sample ID: 890-1365-76

Date Collected: 10/05/21 12:12

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 19:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9166	10/09/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9180	10/11/21 19:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9200	10/11/21 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			9377	10/13/21 22:58	CH	XEN MID

Client Sample ID: C-943

Lab Sample ID: 890-1365-77

Date Collected: 10/05/21 12:13

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 19:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9166	10/09/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9180	10/11/21 19:24	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Client Sample ID: C-943

Lab Sample ID: 890-1365-77

Date Collected: 10/05/21 12:13

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	9200	10/11/21 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			9377	10/13/21 23:04	CH	XEN MID

Client Sample ID: C-944

Lab Sample ID: 890-1365-78

Date Collected: 10/05/21 12:14

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 19:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9166	10/09/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9180	10/11/21 19:45	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9200	10/11/21 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			9377	10/13/21 23:10	CH	XEN MID

Client Sample ID: C-945

Lab Sample ID: 890-1365-79

Date Collected: 10/05/21 12:15

Matrix: Solid

Date Received: 10/05/21 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	9447	10/14/21 10:23	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/16/21 20:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9792	10/18/21 14:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9187	10/11/21 09:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9166	10/09/21 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9180	10/11/21 20:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9200	10/11/21 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			9377	10/13/21 23:16	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1365-1	C-867	Solid	10/05/21 10:07	10/05/21 15:47
890-1365-2	C-868	Solid	10/05/21 10:08	10/05/21 15:47
890-1365-3	C-869	Solid	10/05/21 10:09	10/05/21 15:47
890-1365-4	C-870	Solid	10/05/21 10:10	10/05/21 15:47
890-1365-5	C-871	Solid	10/05/21 10:11	10/05/21 15:47
890-1365-6	C-872	Solid	10/05/21 10:12	10/05/21 15:47
890-1365-7	C-873	Solid	10/05/21 10:13	10/05/21 15:47
890-1365-8	C-874	Solid	10/05/21 10:14	10/05/21 15:47
890-1365-9	C-875	Solid	10/05/21 10:15	10/05/21 15:47
890-1365-10	C-876	Solid	10/05/21 10:16	10/05/21 15:47
890-1365-11	C-877	Solid	10/05/21 10:17	10/05/21 15:47
890-1365-12	C-878	Solid	10/05/21 10:18	10/05/21 15:47
890-1365-13	C-879	Solid	10/05/21 10:19	10/05/21 15:47
890-1365-14	C-880	Solid	10/05/21 10:20	10/05/21 15:47
890-1365-15	C-881	Solid	10/05/21 10:21	10/05/21 15:47
890-1365-16	C-882	Solid	10/05/21 10:22	10/05/21 15:47
890-1365-17	C-883	Solid	10/05/21 10:23	10/05/21 15:47
890-1365-18	C-884	Solid	10/05/21 10:24	10/05/21 15:47
890-1365-19	C-885	Solid	10/05/21 10:25	10/05/21 15:47
890-1365-20	C-886	Solid	10/05/21 10:26	10/05/21 15:47
890-1365-21	C-887	Solid	10/05/21 10:27	10/05/21 15:47
890-1365-22	C-888	Solid	10/05/21 10:28	10/05/21 15:47
890-1365-23	C-889	Solid	10/05/21 10:29	10/05/21 15:47
890-1365-24	C-890	Solid	10/05/21 10:30	10/05/21 15:47
890-1365-25	C-891	Solid	10/05/21 10:31	10/05/21 15:47
890-1365-26	C-892	Solid	10/05/21 10:32	10/05/21 15:47
890-1365-27	C-893	Solid	10/05/21 10:33	10/05/21 15:47
890-1365-28	C-894	Solid	10/05/21 10:34	10/05/21 15:47
890-1365-29	C-895	Solid	10/05/21 10:35	10/05/21 15:47
890-1365-30	C-896	Solid	10/05/21 10:36	10/05/21 15:47
890-1365-31	C-897	Solid	10/05/21 10:37	10/05/21 15:47
890-1365-32	C-898	Solid	10/05/21 10:38	10/05/21 15:47
890-1365-33	C-899	Solid	10/05/21 10:39	10/05/21 15:47
890-1365-34	C-900	Solid	10/05/21 10:40	10/05/21 15:47
890-1365-35	C-901	Solid	10/05/21 10:41	10/05/21 15:47
890-1365-36	C-902	Solid	10/05/21 10:42	10/05/21 15:47
890-1365-37	C-903	Solid	10/05/21 10:43	10/05/21 15:47
890-1365-38	C-904	Solid	10/05/21 14:34	10/05/21 15:47
890-1365-39	C-905	Solid	10/05/21 14:35	10/05/21 15:47
890-1365-40	C-906	Solid	10/05/21 14:36	10/05/21 15:47
890-1365-41	C-907	Solid	10/05/21 14:37	10/05/21 15:47
890-1365-42	C-908	Solid	10/05/21 14:38	10/05/21 15:47
890-1365-43	C-909	Solid	10/05/21 14:39	10/05/21 15:47
890-1365-44	C-910	Solid	10/05/21 14:40	10/05/21 15:47
890-1365-45	C-911	Solid	10/05/21 14:41	10/05/21 15:47
890-1365-46	C-912	Solid	10/05/21 14:42	10/05/21 15:47
890-1365-47	C-913	Solid	10/05/21 14:43	10/05/21 15:47
890-1365-48	C-914	Solid	10/05/21 14:44	10/05/21 15:47
890-1365-49	C-915	Solid	10/05/21 11:45	10/05/21 15:47
890-1365-50	C-916	Solid	10/05/21 11:46	10/05/21 15:47
890-1365-51	C-917	Solid	10/05/21 11:47	10/05/21 15:47
890-1365-52	C-918	Solid	10/05/21 11:48	10/05/21 15:47
890-1365-53	C-919	Solid	10/05/21 11:49	10/05/21 15:47
890-1365-54	C-920	Solid	10/05/21 11:50	10/05/21 15:47
890-1365-55	C-921	Solid	10/05/21 11:51	10/05/21 15:47

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1365-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1365-56	C-922	Solid	10/05/21 11:52	10/05/21 15:47
890-1365-57	C-923	Solid	10/05/21 11:53	10/05/21 15:47
890-1365-58	C-924	Solid	10/05/21 11:54	10/05/21 15:47
890-1365-59	C-925	Solid	10/05/21 11:55	10/05/21 15:47
890-1365-60	C-926	Solid	10/05/21 11:56	10/05/21 15:47
890-1365-61	C-927	Solid	10/05/21 11:57	10/05/21 15:47
890-1365-62	C-928	Solid	10/05/21 11:58	10/05/21 15:47
890-1365-63	C-929	Solid	10/05/21 11:59	10/05/21 15:47
890-1365-64	C-930	Solid	10/05/21 12:00	10/05/21 15:47
890-1365-65	C-931	Solid	10/05/21 12:01	10/05/21 15:47
890-1365-66	C-932	Solid	10/05/21 12:02	10/05/21 15:47
890-1365-67	C-933	Solid	10/05/21 12:03	10/05/21 15:47
890-1365-68	C-934	Solid	10/05/21 12:04	10/05/21 15:47
890-1365-69	C-935	Solid	10/05/21 12:05	10/05/21 15:47
890-1365-70	C-936	Solid	10/05/21 12:06	10/05/21 15:47
890-1365-71	C-937	Solid	10/05/21 12:07	10/05/21 15:47
890-1365-72	C-938	Solid	10/05/21 12:08	10/05/21 15:47
890-1365-73	C-939	Solid	10/05/21 12:09	10/05/21 15:47
890-1365-74	C-940	Solid	10/05/21 12:10	10/05/21 15:47
890-1365-75	C-941	Solid	10/05/21 12:11	10/05/21 15:47
890-1365-76	C-942	Solid	10/05/21 12:12	10/05/21 15:47
890-1365-77	C-943	Solid	10/05/21 12:13	10/05/21 15:47
890-1365-78	C-944	Solid	10/05/21 12:14	10/05/21 15:47
890-1365-79	C-945	Solid	10/05/21 12:15	10/05/21 15:47

No. 2114

Aarson &
associates, inc.
Environmental Consultants

890-1365 Chain of Custody

Data Reported to:

TRRP report? ☐ Yes ☒ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

		TIME ZONE
		Time zone/State.
Field Sample ID		MST / NM
Lab #	Date	Time

HCl	PRESERVATION
HNO ₃	
H ₂ SO ₄ ☐ NaOH ☐	
ICE	
UNPRESSERVED	

ANALYSES	
BTEX	MTBE
TPPH 416 1	TPH 1005
GASOLINE MOD 8015	TPH 1006
DIESEL - MOD 8015	
OIL - MOD 8015	
VOC 8260	
SVOC 8270	
8081 PESTICIDES	PAH 8270
8082 PESTICIDES	8151 HERBICIDES
TCLP - PCBs	HOLD PAH
TCLP - METALS (RCRA)	TCLP VOC
TCLP - PEST	HERB
TOTAL METALS (RCRA)	Semi-VOC
LEAD - TOTAL	DW 200 8
RCI	FLASHPOINT
TDS	TSS
pH	% MOISTURE
EXPLOSIVES	HEXAVALENT CHROMIUM
CHLORIDES	PECHLORATE
ANIONS	ALKALINITY

FIELD NOTES

DATE: 10/5/2021 PAGE 1 OF 6
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmar A-1
LAI PROJECT #: 21-00105-A-02 COLLECTOR: ASG

CHAIN-OF-CUSTODY

	10/5/11	1007	5	1	X	X	X	X	X
C-867									
C-868		1008							
C-869		1009							
C-870		1010							
C-871		1011							
C-872		1012							
C-873		1013							
C-874		1014							
C-875		1015							
C-876		1016							
C-877		1017							
C-878		1018							
C-879		1019							
C-880		1020							
C-881		1021							
TOTAL	5								

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐	LABORATORY USE ONLY RECEIVING TEMP <u>4.6/4.4</u> THERM# <u>7-11M-009</u> CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # _____ ☐ HAND DELIVERED
<i>[Signature]</i>	10/5/21 1547			
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)		
<i>[Signature]</i>	10.5.21 1547			
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)		
LABORATORY	X 11/1/21			

Larson & Associates, Inc.

Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 10/5/2011 PAGE 2 OF 6

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Palmdale As

LAI PROJECT #: 21-0105-02 COLLECTOR: b34

Data Reported to

TRRP report? ☐ Yes ☐ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	
TIME ZONE Time zone/State			

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION
C-882		10/5/11	1022	S	1	HCl HNO₃ H₂SO₄ ☐ NaOH ☐ ICE UNPRESERVED
C-883			1023			
C-884			1024			
C-885			1025			
C-886			1026			
C-887			1027			
C-888			1028			
C-889			1029			
C-890			1030			
C-891			1031			
C-892			1032			
C-893			1033			
C-894			1034			
C-895			1035			
C-896			1036			
TOTAL 15						

RELINQUISHED BY (Signature) _____ DATE/TIME 10/5/11 1547

RECEIVED BY (Signature) _____

RELINQUISHED BY (Signature) _____ DATE/TIME 10-5-21 1547

RECEIVED BY (Signature) _____

LABORATORY X4.MC0

TURN AROUND TIME
 NORMAL ☒ 1 DAY ☐
 2 DAY ☐ OTHER ☐

LABORATORY USE ONLY:
 RECEIVING TEMP 4.4 THERM# 7-1111-007
 CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

ANALYSES

BTEX/MTBE	
TRPH 418.1	TPH 1005
GASOLINE MOD 8015	
DIESEL - MOD 8015	
OIL - MOD 8015	
VOC 8260	SVOC 8270
8081 PESTICIDES	
8082 PCBS	
TCLP - METALS (RCRA)	
TCLP - PEST	
TOTAL METALS (RCRA)	
LEAD - TOTAL	
RCI	
TDS	
pH	
EXPLOSIVES	
CHLORIDES	
ANIONS	
ALKALINITY	

FIELD NOTES

[illegible]

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No. 2117

CHAIN-OF-CUSTODY

Marson & Associates, Inc.
Environmental Consultants

507 N. Mainfield, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 10/5/2021 PAGE 4 OF 6
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmer AST
LAI PROJECT #: 21-005-02 COLLECTOR: BSY

TRRP report?
☐ Yes ☒ No
S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State
MST/ NM

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ NaOH

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX MTBE

TRPH 418 1

TPH 1005

TPH 1006

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

PAH 8270

HOLDPAH

8081 PESTICIDES

8082 PCBS

TCIP - METALS

TCIP - PEST

TOTAL METALS (RCRA)

LEAD - TOTAL

RCI

TDS

TOX

TSS

FLASHPOINT

% MOISTURE

CYANIDE

OTHER LIST

D.W. 200 B

TCIP

pH

HEXAVALENT CHROMIUM

EXPLOSIVES

PECHLORATE

CHLORIDE

ANIONS

ALKALINITY

FIELD NOTES

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ NaOH	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
C-912		10-5-21	1442	S	1				X		X	
C-913			1443		1						X	
C-914			1444		1						X	
C-915			1445		1						X	
C-916			1446		1						X	
C-917			1447		1						X	
C-918			1448		1						X	
C-919			1449		1						X	
C-920			1450		1						X	
C-921			1451		1						X	
C-922			1452		1						X	
C-923			1453		1						X	
C-924			1454		1						X	
C-925			1455		1						X	
C-926			1456		1						X	
TOTAL 15												

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

NORMAL

RECEIVING TEMP. _____ THERM# _____

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

1 DAY

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

LABORATORY SIGNATURE

DATE/TIME

RECEIVED BY (Signature)

2 DAY

CARRIER BILL # _____

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Carson & Associates, Inc.

Environmental Consultants

507 N. Marientfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 10-5-21 PAGE 5 OF 6
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmis Asc
LAI PROJECT #: 21-6105-02 COLLECTOR: DSC + JP

CHAIN-OF-CUSTODY

No. 2118

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				UNPRESERVED	ANALYSES		FIELD NOTES
						HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE		BTEX	MTBE	
L-927		10-5-21	1157	S	1				X				
L-928			1158										
L-929			1159										
L-930			1200										
L-931			1201										
L-932			1202										
L-933			1203										
L-934			1204										
L-935			1205										
L-936			1206										
L-937			1207										
L-938			1208										
L-939			1209										
L-940			1210										
L-941			1211										
TOTAL 15													

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
<i>[Signature]</i>	10/5/21 1547	<i>[Signature]</i>	10/5/21 1547
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
<i>[Signature]</i>	10/5/21 1547	<i>[Signature]</i>	10/5/21 1547
LABORATORY: <i>[Signature]</i>			

TURN AROUND TIME		LABORATORY USE ONLY:	
NORMAL ☒	1 DAY ☐	RECEIVING TEMP	OTHER #
2 DAY ☐	OTHER ☐	CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED	
		CARRIER BILL #	
		HAND DELIVERED ☐	

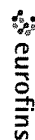
CHAIN-OF-CUSTODY

10/18/2021

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No.									
Client Contact:				Phone	Taylor Holly		890-448-1									
Shipping/Receiving																
Company:				E-Mail	holly.taylor@eurofinet.com	State of Origin	Page: 1 of 9									
Eurofins Xenco				Accreditations Required (See note):			Job #:									
Address				NELAP - Louisiana, NELAP - Texas			890-1365-1									
City				Analysis Requested			Preservation Codes									
1211 W Florida Ave							A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amelcor H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA Other:									
Midland							M. Hexane N. None O. AsnAO2 P. Na2CO3 Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecylhydrate U. Acetone V. MCAA W. pH 4-5 Z. other (specify)									
State Zip																
TX, 79701																
Phone																
432-704-5440(Tel)																
Email																
Project Name:																
Premio ast																
Site																
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=overhead, BT=titrim, A=alt)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6036FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
C-867 (890-1365-1)				10/5/21	10 07	Mountain	Solid	X	X	X	X	X	X	1		
C-868 (890-1365-2)				10/5/21	10 08	Mountain	Solid	X	X	X	X	X	X	1		
C-869 (890-1365-3)				10/5/21	10 09	Mountain	Solid	X	X	X	X	X	X	1		
C-870 (890-1365-4)				10/5/21	10 10	Mountain	Solid	X	X	X	X	X	X	1		
C-871 (890-1365-5)				10/5/21	10 11	Mountain	Solid	X	X	X	X	X	X	1		
C-872 (890-1365-6)				10/5/21	10 12	Mountain	Solid	X	X	X	X	X	X	1		
C-873 (890-1365-7)				10/5/21	10 13	Mountain	Solid	X	X	X	X	X	X	1		
C-874 (890-1365-8)				10/5/21	10 14	Mountain	Solid	X	X	X	X	X	X	1		
C-875 (890-1365-9)				10/5/21	10 15	Mountain	Solid	X	X	X	X	X	X	1		
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.																
Possible Hazard Identification																
Unconfirmed																
Deliverable Requested I II III IV Other (specify)																
Primary Deliverable Rank 2																
Empty Kit Relinquished by																
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Relinquished by																
Relinquished by																
Custody Seals Intact: Custody Seal No																
A Yes A No																

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Eurofins Xenco. Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No.									
Client Contact:		Phone:	Taylor Holly		890-448 2									
Shipping/Receiving		E-Mail:	taylor@eurofinsllc.com	State of Origin	Page									
Company:			NEIAP - Louisiana NEIAP - Texas	New Mexico	Page 2 of 9									
Eurofins Xenco		Accreditations Required (See note)			Job #:									
Address	1211 W Florida Ave	Due Date Requested	10/11/2021		890-1365-1									
City:	Midland	TAT Requested (days)												
State, Zip:	TX 79701													
Phone	432-704-5440(Tel)	PO #:												
Email		WO #:												
Project Name	Prenilo ast	Project #	89000025											
Site		SSOW#:												
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water Based, Oil Based, BT-Tissue, A-Alp)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFMM_28D/DI_LEACH Chloride	8021B/6035FFP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of Containers	Special Instructions/Note.
C-876 (890-1365-10)		10/5/21	Mountain 10 16		Solid	X	X	X	X	X	X	X	1	
C-877 (890-1365-11)		10/5/21	Mountain 10 17		Solid	X	X	X	X	X	X	X	1	
C-878 (890-1365-12)		10/5/21	Mountain 10 18		Solid	X	X	X	X	X	X	X	1	
C-879 (890-1365-13)		10/5/21	Mountain 10 19		Solid	X	X	X	X	X	X	X	1	
C-880 (890-1365-14)		10/5/21	Mountain 10 20		Solid	X	X	X	X	X	X	X	1	
C-881 (890-1365-15)		10/5/21	Mountain 10 21		Solid	X	X	X	X	X	X	X	1	
C-882 (890-1365-16)		10/5/21	Mountain 10 22		Solid	X	X	X	X	X	X	X	1	
C-883 (890-1365-17)		10/5/21	Mountain 10 23		Solid	X	X	X	X	X	X	X	1	
C-884 (890-1365-18)		10/5/21	Mountain 10 24		Solid	X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/shipment, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I II III IV Other (specify)														
Primary Deliverable Rank: 2														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months														
Special Instructions/QC Requirements														
Empty Kit Relinquished by:														
Relinquished by:														
Relinquished by:														
Relinquished by:														
Custody Seals Intact														
Custody Seal No														
A Yes A No														
Cooler Temperature(s) °C and Other Remarks:														

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Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler		Lab PM Taylor, Holly		Carrier Tracking No(s)		COC No 890-448 3															
Client Contact		Phone		E-Mail holly.taylor@eurofinsnet.com		State of Origin New Mexico		Page Page 3 of 9															
Shipping/Receiving				Accreditations Required (See note): NELAP - Louisiana NELAP - Texas				Job # 890-1365-1															
Company Eurofins Xenco		Due Date Requested 10/1/2021						Preservation Codes															
Address 1211 W Florida Ave		TAT Requested (days) 10/1/2021						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other															
City Midland								M - Hexane N - None O - AsHAcO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)															
State Zip TX 79701																							
Phone 432-704-5440(Tel)		PO #																					
Email		WO #																					
Project Name Premio ast		Project # 890000025																					
Site		SSOW#																					
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=oil, B=bitumen, A=air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Analysis Requested		Total Number of containers		Special Instructions/Note			
C-885 (890-1365-19)				10/5/21		10 25		Mountain		Solid		X		X		X		X		1			
C-886 (890-1365-20)				10/5/21		10 26		Mountain		Solid		X		X		X		X		1			
C-887 (890-1365-21)				10/5/21		10 27		Mountain		Solid		X		X		X		X		1			
C-888 (890-1365-22)				10/5/21		10 28		Mountain		Solid		X		X		X		X		1			
C-889 (890-1365-23)				10/5/21		10 29		Mountain		Solid		X		X		X		X		1			
C-890 (890-1365-24)				10/5/21		10 30		Mountain		Solid		X		X		X		X		1			
C-891 (890-1365-25)				10/5/21		10 31		Mountain		Solid		X		X		X		X		1			
C-892 (890-1365-26)				10/5/21		10 32		Mountain		Solid		X		X		X		X		1			
C-893 (890-1365-27)				10/5/21		10 33		Mountain		Solid		X		X		X		X		1			
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.																							
Possible Hazard Identification																							
Unconfirmed																							
Deliverable Requested I, II III IV Other (specify)		Primary Deliverable Rank 2																					
Empty Kit Relinquished by		Date		Time		Method of Shipment																	
Relinquished by		Date/Time		Company		Received by		Date/Time		Company													
Relinquished by		Date/Time		Company		Received by		Date/Time		Company													
Relinquished by		Date/Time		Company		Received by		Date/Time		Company													
Custody Seals Intact		Custody Seal No																					
A Yes A No																							

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)		Sampler		Lab PM		COC No:	
Client Contact: Shipping/Receiving		Phone:		Taylor, Holly		890-448 4	
Company: Eurofins Xenco		E-Mail: holly.taylor@eurofins.com		State of Origin: New Mexico		Page: Page 4 of 9	
Address: 1211 W Florida Ave.		Due Date Requested: 10/11/2021		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1365-1	
City: Midland		TAT Requested (days):		Analysis Requested			
State Zip: TX, 79701		PO #:					
Phone: 432-704-5440(Tel)		WO #:					
Email:		Project #:					
Project Name: Premo ast		SSOW#:					
Site:		Field Filtered Sample (Yes or No)					
		Perform MS/MSD (Yes or No)					
		8015MOD_NM/8015NM_S_Prep (MOD) Full TPH					
		8015MOD_Calc					
		300_ORGFMM_28D/DI_LEACH Chloride					
		8021B/6035FP_Calc (MOD) BTEX - LL					
		Total_BTEX_GCV					
		Total Number of containers					
		Special Instructions/Note:					
		Preservation Codes					
		A. HCL		M. Hexane			
		B. NaOH		N. None			
		C. Zn Acetate		O. AsNaO2			
		D. Nitric Acid		P. Na2O4S			
		E. NaHSO4		Q. Na2SO3			
		F. MeOH		R. Na2S2O3			
		G. Amchlor		S. H2SO4			
		H. Ascorbic Acid		T. TSP Dodecylalate			
		I. Ice		U. Acetone			
		J. DI Water		V. MCAA			
		K. EDTA		W. pH 4.5			
		L. EDA		Z. other (specify)			
		Other:					

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

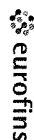
Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	CCC No					
Client Contact:	Phone:	Taylor, Holly			890-448-5					
Shipping/Receiving	E-Mail	holly.taylor@eurofinsnet.com	State of Origin:		Page 5 of 9					
Company			Accreditations Required (See note):		Job #					
Eurofins Xenco			NE LAP - Louisiana, NE LAP - Texas		890-1365-1					
Address	Due Date Requested									
1211 W Florida Ave.	10/11/2021									
City	TAT Requested (days)									
Midland										
State, Zip:										
TX, 79701										
Phone	PO #									
432-704-5440(Tel)										
Email	WO #									
Project Name:	Project #									
Premio ast	89000025									
Site:	SSOV#									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=unknown, B=Trace, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
C-903 (890-1365-37)	10/5/21	10 43	Mountain	Solid		X	X	X	X	
C-904 (890-1365-38)	10/5/21	14 34	Mountain	Solid		X	X	X	X	
C-905 (890-1365-39)	10/5/21	14 35	Mountain	Solid		X	X	X	X	
C-906 (890-1365-40)	10/5/21	14 36	Mountain	Solid		X	X	X	X	
C-907 (890-1365-41)	10/5/21	14 37	Mountain	Solid		X	X	X	X	
C-908 (890-1365-42)	10/5/21	14 38	Mountain	Solid		X	X	X	X	
C-909 (890-1365-43)	10/5/21	14 39	Mountain	Solid		X	X	X	X	
C-910 (890-1365-44)	10/5/21	14 40	Mountain	Solid		X	X	X	X	
C-911 (890-1365-45)	10/5/21	14 41	Mountain	Solid		X	X	X	X	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.										
Possible Hazard Identification		☐ Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months								
Unconfirmed										
Deliverable Requested I, II, III, IV Other (specify)		Primary Deliverable Rank 2		Special Instructions/QC Requirements						
Empty Kit Relinquished by		Date	Time	Method of Shipment:						
Relinquished by		Date/Time:		Date/Time:						
Relinquished by		Date/Time:		Date/Time:						
Relinquished by		Date/Time:		Date/Time:						
Custody Seals Intact:		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:						
Δ Yes Δ No										

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)		Sampler	Lab P.M.	Carrier Tracking No(s)	COC No									
Client Contact:		Phone	Taylor, Holly	State of Origin	890-448 6									
Shipping/Receiving		E-Mail	holly.taylor@eurofinsllc.com	New Mexico	Page 6 of 9									
Company:		Accreditations Required (See note)			Job #:									
Eurofins Xenco		NELAP - Louisiana, NELAP - Texas			890-1365-1									
Address:	1211 W. Florida Ave.	Due Date Requested	Analysis Requested											
City:	Midland	10/11/2021												
State, Zip:	TX, 79701	TAT Requested (days)												
Phone:	432-704-5440(Tel)	PO #:												
Email:		WO #:												
Project Name:	Premio ast	Project #:												
Site:		89000025												
		SSOW#:												
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=Butter, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
C-912 (890-1365-46)		10/5/21	14 42	Mountain	Solid		X	X	X	X	X	X	1	
C-913 (890-1365-47)		10/5/21	14 43	Mountain	Solid		X	X	X	X	X	X	1	
C-914 (890-1365-48)		10/5/21	14 44	Mountain	Solid		X	X	X	X	X	X	1	
C-915 (890-1365-49)		10/5/21	11 45	Mountain	Solid		X	X	X	X	X	X	1	
C-916 (890-1365-50)		10/5/21	11 46	Mountain	Solid		X	X	X	X	X	X	1	
C-917 (890-1365-51)		10/5/21	11 47	Mountain	Solid		X	X	X	X	X	X	1	
C-918 (890-1365-52)		10/5/21	11 48	Mountain	Solid		X	X	X	X	X	X	1	
C-919 (890-1365-53)		10/5/21	11 49	Mountain	Solid		X	X	X	X	X	X	1	
C-920 (890-1365-54)		10/5/21	11 50	Mountain	Solid		X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysts/methods being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I II III IV, Other (specify) Primary Deliverable Rank: 2														
Empty Kit Relinquished by: Date: Time: Method of Shipment:														
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:														
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:														
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:														
Custody Seals Intact: Custody Seal No: Cooler Temperature(s) °C and Other Remarks:														
A Yes A No														

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

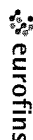


Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact:	Phone:	Taylor Holly			890-448 7
Shipping/Receiving	E-Mail:	holly.taylor@eurofinsllc.com	State of Origin:		Page: 7 of 9
Company:			Accreditations Required (See note):		Page 7 of 9
Address:	Due Date Requested:	10/11/2021	Accreditations Required (See note):		Job #
City:	TRAT Requested (day/s)		NEELAP - Louisiana	NEELAP - Texas	890-1365-1
State:					
TX, 79701					
Phone:	PG #				
432-704-5440(Tel)					
Email:	WO #				
Project Name	Project #	89000025			
Premio ast	SSOW#				
Site:					
Sample Identification - Client ID (Lab ID)					
C-921 (890-1365-55)	Sample Date	10/5/21	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=trace, A=air)
C-922 (890-1365-56)	10/5/21	11 51	Mountain		Solid
C-923 (890-1365-57)	10/5/21	11 52	Mountain		Solid
C-924 (890-1365-58)	10/5/21	11 53	Mountain		Solid
C-925 (890-1365-59)	10/5/21	11 54	Mountain		Solid
C-926 (890-1365-60)	10/5/21	11 55	Mountain		Solid
C-927 (890-1365-61)	10/5/21	11 56	Mountain		Solid
C-928 (890-1365-62)	10/5/21	11 57	Mountain		Solid
C-929 (890-1365-63)	10/5/21	11 58	Mountain		Solid
		11 59	Mountain		Solid
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I, II III IV Other (specify)					
Primary Deliverable Rank 2					
Empty Kit Relinquished by:					
Relinquished by: Cbe CF 10-5-21					
Relinquished by: 10/6/21 14:00					
Relinquished by: Xenco					
Relinquished by: Xenco					
Custody Seals Intact: Custody Seal No					
A Yes A No					
Cooler Temperature(s) °C and Other Remarks:					

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



**Environment Testing
America**

Client Information (Sub Contract Lab)					
		Sampler	Laboratory Name	COC No.	890-448 8
Client Contact:		Name	Taylor, Holly	State of Origin	New Mexico
Shipping/Receiving		E-Mail	holly.taylor@eurofinsnet.com	Page	Page 8 of 9
Company		Eurofins Xenco	NELAP - Louisiana NELAP - Texas	Job #	890-1365-1
Address:		1211 W Florida Ave	Due Date Requested	Analysis Requested	Preservation Codes
City		Midland	10/11/2021	FAT Requested (days)	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO ₄ F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AshNaCO ₂ P - Na ₂ OAS Q - Na ₂ SO ₄ R - Na ₂ SiO ₃ S - H ₂ SO ₄ T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
Phone		TX 79701	PO #		
Email		432-704-5440(Tel)	WO #		
Project Name:		Premio ast	Project #		
Site:		SSOW#	89000025		
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (G=grab) Preservation Code	Matrix (w-water s-solid o-wastechl br-tissue A-Air) Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8016MOD_NM/8016NM_S_Prep (MOD) Full TPH 8016MOD_Calc 300_ORGFWM_28DI_LEACH Chloride 8021BI/8036FP_Calc (MOD) BTEX - LL Total_BTEX_GCV Total Number of containers Special Instructions/Note:
C-930 (890-1365-64)	10/5/21	Mountain	12 00	Solid	X X X X X X
C-931 (890-1365-65)	10/5/21	Mountain	12 01	Solid	X X X X X X
C-932 (890-1365-66)	10/5/21	Mountain	12 02	Solid	X X X X X X
C-933 (890-1365-67)	10/5/21	Mountain	12 03	Solid	X X X X X X
C-934 (890-1365-68)	10/5/21	Mountain	12 04	Solid	X X X X X X
C-935 (890-1365-69)	10/5/21	Mountain	12 05	Solid	X X X X X X
C-936 (890-1365-70)	10/5/21	Mountain	12 06	Solid	X X X X X X
C-937 (890-1365-71)	10/5/21	Mountain	12 07	Solid	X X X X X X
C-938 (890-1365-72)	10/5/21	Mountain	12 08	Solid	X X X X X X
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC Laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification Unconfirmed Deliverable Requested I II III, IV Other (specify) Primary Deliverable Rank 2 Empty Kit Relinquished by Reinstated by Company Date Time Received By Date Time Method of Shipment: Cooler Temperature(s) °C and Other Remarks					

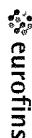
Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad, NM 88220

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)						Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact:						Phone	Taylor Holly		890-448 9
Shipping/Receiving						E-Mail	taylor@eurofinsnet.com	State of Origin	Page 9 of 9
Company						Accreditations Required (See note):			Job #:
Eurofins Xenco						NELAP - Louisiana, NELAP - Texas			890-1365-1
Address						Due Date Requested			
1211 W Florida Ave						10/11/2021			
City						TAT Requested (days)			
Midland									
State Zip									
TX, 79701									
Phone:						PO #			
432-704-5440(Tel)									
Email						WO #			
Project Name:						Project #			
Premio ast						89000025			
Site						SSOW#:			
Sample Identification - Client ID (Lab ID)						Field Filtered Sample (Yes or No)			
						Perform MS/MSD (Yes or No)			
						8015MOD_NM/8016NM_S_Prep (MOD) Full TPH			
						8015MOD_Calc			
						300_ORGFM_28D/DI_LEACH Chloride			
						8021B/6036FP_Calc (MOD) BTEX - LL			
						Total_BTEX_GCV			
						Total Number of containers			
C-939 (890-1365-73)						X			
C-940 (890-1365-74)						X			
C-941 (890-1365-75)						X			
C-942 (890-1365-76)						X			
C-943 (890-1365-77)						X			
C-944 (890-1365-78)						X			
C-945 (890-1365-79)						X			
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/mainly being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.									
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed						☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements			
Primary Deliverable Rank 2									
Empty Kit Relinquished by						Date	Time	Method of Shipment:	
Relinquished by						Date/Time	Received by	Date/Time	Company
Cue Corp 10.5.21						10/10/21 14:00	[Signature]		
Relinquished by						Date/Time	Received by	Date/Time	Company
Relinquished by						Date/Time	Received by	Date/Time	Company
Custody Seals Intact.						Custody Seal No	Cooler Temperature(s) °C and Other Remarks.		
Δ Yes Δ No									

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1365-1

SDG Number: 21-0105-02

Login Number: 1365**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1365-1

SDG Number: 21-0105-02

Login Number: 1365

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland

List Creation: 10/06/21 02:01 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1373-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/18/2021 5:14:07 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1373-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Eurofins Xenco, Carlsbad

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Job ID: 890-1373-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1373-1

Comments

No additional comments.

Receipt

The samples were received on 10/6/2021 4:04 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9205 and analytical batch 880-9436 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-951 (890-1373-6), C-954 (890-1373-9), C-955 (890-1373-10), C-956 (890-1373-11), C-959 (890-1373-14), C-961 (890-1373-16), C-964 (890-1373-19), C-965 (890-1373-20) and (MB 880-9205/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9203 and analytical batch 880-9437 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9449 and analytical batch 880-9522 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9448 and analytical batch 880-9604 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-967 (890-1373-21), C-969 (890-1373-23), C-975 (890-1373-29), C-981 (890-1373-36), C-984 (890-1373-39) and C-985 (890-1373-40). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9371 and analytical batch 880-9354 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (MB 880-9299/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-9208 and analytical batch 880-9381 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-9417 and analytical batch 880-9634 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Job ID: 890-1373-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-946

Lab Sample ID: 890-1373-1

Date Collected: 10/06/21 07:40

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199	mg/Kg		10/11/21 11:57	10/15/21 02:49	1
Toluene	<0.00199	U F1 F2	0.00199	mg/Kg		10/11/21 11:57	10/15/21 02:49	1
Ethylbenzene	<0.00199	U F1 F2	0.00199	mg/Kg		10/11/21 11:57	10/15/21 02:49	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398	mg/Kg		10/11/21 11:57	10/15/21 02:49	1
o-Xylene	<0.00199	U F1 F2	0.00199	mg/Kg		10/11/21 11:57	10/15/21 02:49	1
Xylenes, Total	<0.00398	U F1 F2	0.00398	mg/Kg		10/11/21 11:57	10/15/21 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	10/11/21 11:57	10/15/21 02:49	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/11/21 11:57	10/15/21 02:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 12:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 12:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	10/12/21 11:13	10/13/21 12:24	1
o-Terphenyl	120		70 - 130	10/12/21 11:13	10/13/21 12:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		4.95	mg/Kg			10/15/21 13:10	1

Client Sample ID: C-947

Lab Sample ID: 890-1373-2

Date Collected: 10/06/21 07:41

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 03:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 03:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 03:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/11/21 11:57	10/15/21 03:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 03:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/11/21 11:57	10/15/21 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/11/21 11:57	10/15/21 03:15	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/11/21 11:57	10/15/21 03:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-947

Lab Sample ID: 890-1373-2

Date Collected: 10/06/21 07:41

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 13:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 13:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 13:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			10/12/21 11:13	10/13/21 13:29	1
o-Terphenyl	110		70 - 130			10/12/21 11:13	10/13/21 13:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	448		5.02	mg/Kg			10/15/21 13:15	1

Client Sample ID: C-948

Lab Sample ID: 890-1373-3

Date Collected: 10/06/21 07:42

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 03:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 03:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 03:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/11/21 11:57	10/15/21 03:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 03:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/11/21 11:57	10/15/21 03:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130			10/11/21 11:57	10/15/21 03:41	1
1,4-Difluorobenzene (Surr)	84		70 - 130			10/11/21 11:57	10/15/21 03:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 13:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 13:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-948

Lab Sample ID: 890-1373-3

Date Collected: 10/06/21 07:42

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/12/21 11:13	10/13/21 13:50	1
o-Terphenyl	105		70 - 130			10/12/21 11:13	10/13/21 13:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	273		4.99	mg/Kg			10/15/21 13:21	1

Client Sample ID: C-949

Lab Sample ID: 890-1373-4

Date Collected: 10/06/21 07:43

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 04:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 04:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 04:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/11/21 11:57	10/15/21 04:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 04:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/11/21 11:57	10/15/21 04:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			10/11/21 11:57	10/15/21 04:07	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/11/21 11:57	10/15/21 04:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 14:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 14:12	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			10/12/21 11:13	10/13/21 14:12	1
o-Terphenyl	108		70 - 130			10/12/21 11:13	10/13/21 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	333		4.98	mg/Kg			10/15/21 13:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-950

Lab Sample ID: 890-1373-5

Date Collected: 10/06/21 07:44

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 04:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 04:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 04:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/11/21 11:57	10/15/21 04:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 04:33	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/11/21 11:57	10/15/21 04:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	10/11/21 11:57	10/15/21 04:33	1
1,4-Difluorobenzene (Surr)	85		70 - 130	10/11/21 11:57	10/15/21 04:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 14:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 14:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	10/12/21 11:13	10/13/21 14:34	1
o-Terphenyl	112		70 - 130	10/12/21 11:13	10/13/21 14:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	322	F1	4.98	mg/Kg			10/15/21 09:42	1

Client Sample ID: C-951

Lab Sample ID: 890-1373-6

Date Collected: 10/06/21 07:45

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 05:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 05:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 05:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/11/21 11:57	10/15/21 05:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 05:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/21 11:57	10/15/21 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130	10/11/21 11:57	10/15/21 05:00	1
1,4-Difluorobenzene (Surr)	86		70 - 130	10/11/21 11:57	10/15/21 05:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-951

Lab Sample ID: 890-1373-6

Date Collected: 10/06/21 07:45

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 14:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 14:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 14:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/12/21 11:13	10/13/21 14:56	1
o-Terphenyl	110		70 - 130			10/12/21 11:13	10/13/21 14:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		5.05	mg/Kg			10/15/21 10:03	1

Client Sample ID: C-952

Lab Sample ID: 890-1373-7

Date Collected: 10/06/21 07:46

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/11/21 11:57	10/15/21 05:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/11/21 11:57	10/15/21 05:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/11/21 11:57	10/15/21 05:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/11/21 11:57	10/15/21 05:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/11/21 11:57	10/15/21 05:26	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/11/21 11:57	10/15/21 05:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			10/11/21 11:57	10/15/21 05:26	1
1,4-Difluorobenzene (Surr)	74		70 - 130			10/11/21 11:57	10/15/21 05:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 15:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 15:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-952

Lab Sample ID: 890-1373-7

Date Collected: 10/06/21 07:46

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 15:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/12/21 11:13	10/13/21 15:18	1
o-Terphenyl	112		70 - 130			10/12/21 11:13	10/13/21 15:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	484		4.97	mg/Kg			10/15/21 10:10	1

Client Sample ID: C-953

Lab Sample ID: 890-1373-8

Date Collected: 10/06/21 07:47

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 05:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 05:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 05:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/11/21 11:57	10/15/21 05:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 05:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/11/21 11:57	10/15/21 05:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			10/11/21 11:57	10/15/21 05:52	1
1,4-Difluorobenzene (Surr)	96		70 - 130			10/11/21 11:57	10/15/21 05:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 15:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 15:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 15:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			10/12/21 11:13	10/13/21 15:41	1
o-Terphenyl	117		70 - 130			10/12/21 11:13	10/13/21 15:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	292		4.96	mg/Kg			10/15/21 10:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-954

Lab Sample ID: 890-1373-9

Date Collected: 10/06/21 07:48

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:57	10/15/21 06:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:57	10/15/21 06:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:57	10/15/21 06:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/11/21 11:57	10/15/21 06:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:57	10/15/21 06:19	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/11/21 11:57	10/15/21 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	10/11/21 11:57	10/15/21 06:19	1
1,4-Difluorobenzene (Surr)	71		70 - 130	10/11/21 11:57	10/15/21 06:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 16:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 16:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	10/12/21 11:13	10/13/21 16:03	1
o-Terphenyl	103		70 - 130	10/12/21 11:13	10/13/21 16:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	174		4.95	mg/Kg			10/15/21 10:25	1

Client Sample ID: C-955

Lab Sample ID: 890-1373-10

Date Collected: 10/06/21 07:49

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:57	10/15/21 06:45	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:57	10/15/21 06:45	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:57	10/15/21 06:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/11/21 11:57	10/15/21 06:45	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:57	10/15/21 06:45	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/11/21 11:57	10/15/21 06:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	276	S1+	70 - 130	10/11/21 11:57	10/15/21 06:45	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/11/21 11:57	10/15/21 06:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-955

Lab Sample ID: 890-1373-10

Date Collected: 10/06/21 07:49

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 16:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 16:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 16:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/12/21 11:13	10/13/21 16:24	1
o-Terphenyl	117		70 - 130			10/12/21 11:13	10/13/21 16:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	602		5.04	mg/Kg			10/15/21 10:46	1

Client Sample ID: C-956

Lab Sample ID: 890-1373-11

Date Collected: 10/06/21 07:50

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/11/21 11:57	10/15/21 08:35	1
Toluene	0.00349		0.00202	mg/Kg		10/11/21 11:57	10/15/21 08:35	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/11/21 11:57	10/15/21 08:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/11/21 11:57	10/15/21 08:35	1
o-Xylene	0.00279		0.00202	mg/Kg		10/11/21 11:57	10/15/21 08:35	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/11/21 11:57	10/15/21 08:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	177	S1+	70 - 130			10/11/21 11:57	10/15/21 08:35	1
1,4-Difluorobenzene (Surr)	88		70 - 130			10/11/21 11:57	10/15/21 08:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00628		0.00403	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 17:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 17:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-956

Lab Sample ID: 890-1373-11

Date Collected: 10/06/21 07:50

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 17:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			10/12/21 11:13	10/13/21 17:06	1
o-Terphenyl	111		70 - 130			10/12/21 11:13	10/13/21 17:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	664		4.95	mg/Kg			10/15/21 10:53	1

Client Sample ID: C-957

Lab Sample ID: 890-1373-12

Date Collected: 10/06/21 07:51

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 09:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 09:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 09:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/11/21 11:57	10/15/21 09:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 09:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/11/21 11:57	10/15/21 09:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			10/11/21 11:57	10/15/21 09:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/11/21 11:57	10/15/21 09:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 17:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 17:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 17:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/12/21 11:13	10/13/21 17:27	1
o-Terphenyl	111		70 - 130			10/12/21 11:13	10/13/21 17:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	365		4.98	mg/Kg			10/15/21 11:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-958

Lab Sample ID: 890-1373-13

Date Collected: 10/06/21 07:52

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 09:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 09:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 09:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/11/21 11:57	10/15/21 09:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 09:31	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/21 11:57	10/15/21 09:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	10/11/21 11:57	10/15/21 09:31	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/11/21 11:57	10/15/21 09:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 17:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 17:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	10/12/21 11:13	10/13/21 17:48	1
o-Terphenyl	115		70 - 130	10/12/21 11:13	10/13/21 17:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		5.00	mg/Kg			10/15/21 11:08	1

Client Sample ID: C-959

Lab Sample ID: 890-1373-14

Date Collected: 10/06/21 07:53

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 09:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 09:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 09:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/11/21 11:57	10/15/21 09:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 09:57	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/11/21 11:57	10/15/21 09:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	10/11/21 11:57	10/15/21 09:57	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/11/21 11:57	10/15/21 09:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-959

Lab Sample ID: 890-1373-14

Date Collected: 10/06/21 07:53

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 18:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 18:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/12/21 11:13	10/13/21 18:09	1
o-Terphenyl	113		70 - 130			10/12/21 11:13	10/13/21 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		5.02	mg/Kg			10/15/21 11:15	1

Client Sample ID: C-960

Lab Sample ID: 890-1373-15

Date Collected: 10/06/21 07:54

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 10:24	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 10:24	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 10:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/11/21 11:57	10/15/21 10:24	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 10:24	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/11/21 11:57	10/15/21 10:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			10/11/21 11:57	10/15/21 10:24	1
1,4-Difluorobenzene (Surr)	86		70 - 130			10/11/21 11:57	10/15/21 10:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 18:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 18:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-960

Lab Sample ID: 890-1373-15

Date Collected: 10/06/21 07:54

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 18:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/12/21 11:13	10/13/21 18:30	1
o-Terphenyl	115		70 - 130			10/12/21 11:13	10/13/21 18:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.3	F1	5.00	mg/Kg			10/15/21 11:22	1

Client Sample ID: C-961

Lab Sample ID: 890-1373-16

Date Collected: 10/06/21 07:55

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 10:51	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 10:51	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 10:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/11/21 11:57	10/15/21 10:51	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 10:51	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/11/21 11:57	10/15/21 10:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130			10/11/21 11:57	10/15/21 10:51	1
1,4-Difluorobenzene (Surr)	90		70 - 130			10/11/21 11:57	10/15/21 10:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 18:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 18:51	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/12/21 11:13	10/13/21 18:51	1
o-Terphenyl	115		70 - 130			10/12/21 11:13	10/13/21 18:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	274		4.98	mg/Kg			10/15/21 11:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-962

Lab Sample ID: 890-1373-17

Date Collected: 10/06/21 07:56

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 11:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 11:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 11:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/11/21 11:57	10/15/21 11:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:57	10/15/21 11:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/11/21 11:57	10/15/21 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/11/21 11:57	10/15/21 11:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/11/21 11:57	10/15/21 11:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 19:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 19:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	10/12/21 11:13	10/13/21 19:11	1
o-Terphenyl	111		70 - 130	10/12/21 11:13	10/13/21 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	358		5.00	mg/Kg			10/15/21 11:51	1

Client Sample ID: C-963

Lab Sample ID: 890-1373-18

Date Collected: 10/06/21 07:57

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 11:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 11:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/11/21 11:57	10/15/21 11:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 11:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/21 11:57	10/15/21 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/11/21 11:57	10/15/21 11:44	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/11/21 11:57	10/15/21 11:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-963

Lab Sample ID: 890-1373-18

Date Collected: 10/06/21 07:57

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/15/21 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 19:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 19:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:13	10/13/21 19:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			10/12/21 11:13	10/13/21 19:31	1
o-Terphenyl	116		70 - 130			10/12/21 11:13	10/13/21 19:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	413		4.95	mg/Kg			10/15/21 12:12	1

Client Sample ID: C-964

Lab Sample ID: 890-1373-19

Date Collected: 10/06/21 07:58

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 12:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 12:11	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 12:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/11/21 11:57	10/15/21 12:11	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:57	10/15/21 12:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/11/21 11:57	10/15/21 12:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			10/11/21 11:57	10/15/21 12:11	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130			10/11/21 11:57	10/15/21 12:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 19:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 19:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-964

Date Collected: 10/06/21 07:58

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-19

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 19:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/12/21 11:13	10/13/21 19:51	1
o-Terphenyl	116		70 - 130			10/12/21 11:13	10/13/21 19:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.9		4.95	mg/Kg			10/15/21 12:19	1

Client Sample ID: C-965

Date Collected: 10/06/21 07:59

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:57	10/15/21 12:37	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:57	10/15/21 12:37	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:57	10/15/21 12:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/11/21 11:57	10/15/21 12:37	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:57	10/15/21 12:37	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/11/21 11:57	10/15/21 12:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130			10/11/21 11:57	10/15/21 12:37	1
1,4-Difluorobenzene (Surr)	117		70 - 130			10/11/21 11:57	10/15/21 12:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 20:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 20:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:13	10/13/21 20:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/12/21 11:13	10/13/21 20:12	1
o-Terphenyl	111		70 - 130			10/12/21 11:13	10/13/21 20:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	448		5.02	mg/Kg			10/15/21 12:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-967

Lab Sample ID: 890-1373-21

Date Collected: 10/06/21 08:01

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198	mg/Kg		10/14/21 10:28	10/17/21 16:36	1
Toluene	<0.00198	U F1	0.00198	mg/Kg		10/14/21 10:28	10/17/21 16:36	1
Ethylbenzene	<0.00198	U F1	0.00198	mg/Kg		10/14/21 10:28	10/17/21 16:36	1
m-Xylene & p-Xylene	<0.00396	U F1	0.00396	mg/Kg		10/14/21 10:28	10/17/21 16:36	1
o-Xylene	<0.00198	U F1	0.00198	mg/Kg		10/14/21 10:28	10/17/21 16:36	1
Xylenes, Total	<0.00396	U F1	0.00396	mg/Kg		10/14/21 10:28	10/17/21 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130	10/14/21 10:28	10/17/21 16:36	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/14/21 10:28	10/17/21 16:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 11:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 11:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 11:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	10/12/21 11:38	10/13/21 11:21	1
o-Terphenyl	140	S1+	70 - 130	10/12/21 11:38	10/13/21 11:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	462		4.99	mg/Kg			10/15/21 12:34	1

Client Sample ID: C-968

Lab Sample ID: 890-1373-22

Date Collected: 10/06/21 10:08

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 16:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 16:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 16:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:28	10/17/21 16:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 16:57	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:28	10/17/21 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	10/14/21 10:28	10/17/21 16:57	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/14/21 10:28	10/17/21 16:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-968

Lab Sample ID: 890-1373-22

Date Collected: 10/06/21 10:08

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 12:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 12:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 12:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/12/21 11:38	10/13/21 12:28	1
o-Terphenyl	124		70 - 130			10/12/21 11:38	10/13/21 12:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.6		4.98	mg/Kg			10/15/21 12:41	1

Client Sample ID: C-969

Lab Sample ID: 890-1373-23

Date Collected: 10/06/21 10:09

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 17:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 17:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 17:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:28	10/17/21 17:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 17:17	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:28	10/17/21 17:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/14/21 10:28	10/17/21 17:17	1
1,4-Difluorobenzene (Surr)	265	S1+	70 - 130			10/14/21 10:28	10/17/21 17:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 12:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 12:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-969

Lab Sample ID: 890-1373-23

Date Collected: 10/06/21 10:09

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 12:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/12/21 11:38	10/13/21 12:50	1
o-Terphenyl	124		70 - 130			10/12/21 11:38	10/13/21 12:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.9		4.95	mg/Kg			10/15/21 12:48	1

Client Sample ID: C-970

Lab Sample ID: 890-1373-24

Date Collected: 10/06/21 10:10

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:28	10/17/21 17:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:28	10/17/21 17:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:28	10/17/21 17:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:28	10/17/21 17:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:28	10/17/21 17:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:28	10/17/21 17:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/14/21 10:28	10/17/21 17:38	1
1,4-Difluorobenzene (Surr)	101		70 - 130			10/14/21 10:28	10/17/21 17:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 13:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 13:12	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 13:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/12/21 11:38	10/13/21 13:12	1
o-Terphenyl	124		70 - 130			10/12/21 11:38	10/13/21 13:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.5		4.96	mg/Kg			10/15/21 12:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-971

Lab Sample ID: 890-1373-25

Date Collected: 10/06/21 10:11

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 17:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 17:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 17:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:28	10/17/21 17:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 17:59	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:28	10/17/21 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	10/14/21 10:28	10/17/21 17:59	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/14/21 10:28	10/17/21 17:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 13:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 13:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	10/12/21 11:38	10/13/21 13:33	1
o-Terphenyl	126		70 - 130	10/12/21 11:38	10/13/21 13:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.5		5.05	mg/Kg			10/15/21 19:30	1

Client Sample ID: C-972

Lab Sample ID: 890-1373-26

Date Collected: 10/06/21 10:12

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 18:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 18:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 18:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:28	10/17/21 18:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 18:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:28	10/17/21 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/14/21 10:28	10/17/21 18:20	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/14/21 10:28	10/17/21 18:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-972

Lab Sample ID: 890-1373-26

Date Collected: 10/06/21 10:12

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 13:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 13:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			10/12/21 11:38	10/13/21 13:55	1
o-Terphenyl	127		70 - 130			10/12/21 11:38	10/13/21 13:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		4.95	mg/Kg			10/14/21 04:27	1

Client Sample ID: C-973

Lab Sample ID: 890-1373-27

Date Collected: 10/06/21 10:13

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:28	10/17/21 18:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:28	10/17/21 18:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:28	10/17/21 18:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:28	10/17/21 18:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:28	10/17/21 18:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:28	10/17/21 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			10/14/21 10:28	10/17/21 18:40	1
1,4-Difluorobenzene (Surr)	130		70 - 130			10/14/21 10:28	10/17/21 18:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 14:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 14:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-973

Date Collected: 10/06/21 10:13

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-27

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			10/12/21 11:38	10/13/21 14:17	1
o-Terphenyl	126		70 - 130			10/12/21 11:38	10/13/21 14:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.5		5.01	mg/Kg			10/14/21 04:48	1

Client Sample ID: C-974

Date Collected: 10/06/21 10:14

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-28

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 19:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 19:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 19:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:28	10/17/21 19:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 19:01	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:28	10/17/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			10/14/21 10:28	10/17/21 19:01	1
1,4-Difluorobenzene (Surr)	80		70 - 130			10/14/21 10:28	10/17/21 19:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 14:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 14:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 14:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/12/21 11:38	10/13/21 14:38	1
o-Terphenyl	119		70 - 130			10/12/21 11:38	10/13/21 14:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.6		4.97	mg/Kg			10/14/21 04:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-975

Lab Sample ID: 890-1373-29

Date Collected: 10/06/21 10:15

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:28	10/17/21 19:22	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:28	10/17/21 19:22	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:28	10/17/21 19:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 10:28	10/17/21 19:22	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:28	10/17/21 19:22	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 10:28	10/17/21 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/14/21 10:28	10/17/21 19:22	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130	10/14/21 10:28	10/17/21 19:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 15:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 15:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	10/12/21 11:38	10/13/21 15:00	1
o-Terphenyl	122		70 - 130	10/12/21 11:38	10/13/21 15:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.6		4.98	mg/Kg			10/14/21 05:03	1

Client Sample ID: C-906

Lab Sample ID: 890-1373-30

Date Collected: 10/06/21 08:00

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 19:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 19:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 19:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:28	10/17/21 19:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 19:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:28	10/17/21 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/14/21 10:28	10/17/21 19:42	1
1,4-Difluorobenzene (Surr)	84		70 - 130	10/14/21 10:28	10/17/21 19:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-906

Lab Sample ID: 890-1373-30

Date Collected: 10/06/21 08:00

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 15:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 15:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 15:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/12/21 11:38	10/13/21 15:22	1
o-Terphenyl	118		70 - 130			10/12/21 11:38	10/13/21 15:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.0		5.00	mg/Kg			10/14/21 05:10	1

Client Sample ID: C-976

Lab Sample ID: 890-1373-31

Date Collected: 10/06/21 13:06

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:28	10/17/21 21:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:28	10/17/21 21:06	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:28	10/17/21 21:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:28	10/17/21 21:06	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:28	10/17/21 21:06	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:28	10/17/21 21:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			10/14/21 10:28	10/17/21 21:06	1
1,4-Difluorobenzene (Surr)	123		70 - 130			10/14/21 10:28	10/17/21 21:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 16:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 16:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-976

Date Collected: 10/06/21 13:06

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-31

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 16:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/12/21 11:38	10/13/21 16:06	1
o-Terphenyl	127		70 - 130			10/12/21 11:38	10/13/21 16:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.8		4.96	mg/Kg			10/14/21 05:31	1

Client Sample ID: C-977

Date Collected: 10/06/21 13:07

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-32

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:28	10/17/21 21:27	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:28	10/17/21 21:27	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:28	10/17/21 21:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:28	10/17/21 21:27	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:28	10/17/21 21:27	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:28	10/17/21 21:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			10/14/21 10:28	10/17/21 21:27	1
1,4-Difluorobenzene (Surr)	114		70 - 130			10/14/21 10:28	10/17/21 21:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 16:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 16:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 16:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			10/12/21 11:38	10/13/21 16:28	1
o-Terphenyl	130		70 - 130			10/12/21 11:38	10/13/21 16:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	263		4.97	mg/Kg			10/14/21 05:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-978

Lab Sample ID: 890-1373-33

Date Collected: 10/06/21 13:08

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:28	10/17/21 21:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:28	10/17/21 21:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:28	10/17/21 21:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:28	10/17/21 21:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:28	10/17/21 21:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:28	10/17/21 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/14/21 10:28	10/17/21 21:48	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/14/21 10:28	10/17/21 21:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 16:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 16:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	10/12/21 11:38	10/13/21 16:49	1
o-Terphenyl	126		70 - 130	10/12/21 11:38	10/13/21 16:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		4.98	mg/Kg			10/14/21 05:46	1

Client Sample ID: C-979

Lab Sample ID: 890-1373-34

Date Collected: 10/06/21 13:09

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:28	10/17/21 22:08	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:28	10/17/21 22:08	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:28	10/17/21 22:08	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/14/21 10:28	10/17/21 22:08	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:28	10/17/21 22:08	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/14/21 10:28	10/17/21 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	10/14/21 10:28	10/17/21 22:08	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/14/21 10:28	10/17/21 22:08	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-979

Lab Sample ID: 890-1373-34

Date Collected: 10/06/21 13:09

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 17:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 17:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			10/12/21 11:38	10/13/21 17:10	1
o-Terphenyl	129		70 - 130			10/12/21 11:38	10/13/21 17:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1210		4.99	mg/Kg			10/14/21 05:53	1

Client Sample ID: C-980

Lab Sample ID: 890-1373-35

Date Collected: 10/06/21 13:10

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:28	10/17/21 22:29	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:28	10/17/21 22:29	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:28	10/17/21 22:29	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/14/21 10:28	10/17/21 22:29	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:28	10/17/21 22:29	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/14/21 10:28	10/17/21 22:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130			10/14/21 10:28	10/17/21 22:29	1
1,4-Difluorobenzene (Surr)	101		70 - 130			10/14/21 10:28	10/17/21 22:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 17:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 17:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-980

Lab Sample ID: 890-1373-35

Date Collected: 10/06/21 13:10

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 17:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			10/12/21 11:38	10/13/21 17:31	1
o-Terphenyl	128		70 - 130			10/12/21 11:38	10/13/21 17:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		5.05	mg/Kg			10/14/21 06:00	1

Client Sample ID: C-981

Lab Sample ID: 890-1373-36

Date Collected: 10/06/21 13:11

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:28	10/17/21 22:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:28	10/17/21 22:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:28	10/17/21 22:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:28	10/17/21 22:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:28	10/17/21 22:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:28	10/17/21 22:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			10/14/21 10:28	10/17/21 22:50	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/14/21 10:28	10/17/21 22:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 17:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 17:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 17:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/12/21 11:38	10/13/21 17:53	1
o-Terphenyl	128		70 - 130			10/12/21 11:38	10/13/21 17:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224	F1	5.00	mg/Kg			10/14/21 06:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-982

Lab Sample ID: 890-1373-37

Date Collected: 10/06/21 13:12

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 23:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 23:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 23:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:28	10/17/21 23:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 23:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:28	10/17/21 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/14/21 10:28	10/17/21 23:10	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/14/21 10:28	10/17/21 23:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 18:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 18:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	10/12/21 11:38	10/13/21 18:14	1
o-Terphenyl	128		70 - 130	10/12/21 11:38	10/13/21 18:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221		4.95	mg/Kg			10/14/21 06:29	1

Client Sample ID: C-983

Lab Sample ID: 890-1373-38

Date Collected: 10/06/21 13:13

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:28	10/17/21 23:31	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:28	10/17/21 23:31	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:28	10/17/21 23:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 10:28	10/17/21 23:31	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:28	10/17/21 23:31	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 10:28	10/17/21 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	10/14/21 10:28	10/17/21 23:31	1
1,4-Difluorobenzene (Surr)	78		70 - 130	10/14/21 10:28	10/17/21 23:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-983

Lab Sample ID: 890-1373-38

Date Collected: 10/06/21 13:13

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 18:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 18:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:38	10/13/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/12/21 11:38	10/13/21 18:35	1
o-Terphenyl	127		70 - 130			10/12/21 11:38	10/13/21 18:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		5.00	mg/Kg			10/14/21 06:36	1

Client Sample ID: C-984

Lab Sample ID: 890-1373-39

Date Collected: 10/06/21 13:14

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:28	10/17/21 23:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:28	10/17/21 23:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:28	10/17/21 23:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:28	10/17/21 23:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:28	10/17/21 23:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:28	10/17/21 23:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			10/14/21 10:28	10/17/21 23:52	1
1,4-Difluorobenzene (Surr)	160	S1+	70 - 130			10/14/21 10:28	10/17/21 23:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 18:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 18:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-984

Lab Sample ID: 890-1373-39

Date Collected: 10/06/21 13:14

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/12/21 11:38	10/13/21 18:57	1
o-Terphenyl	123		70 - 130			10/12/21 11:38	10/13/21 18:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		4.97	mg/Kg			10/14/21 06:57	1

Client Sample ID: C-985

Lab Sample ID: 890-1373-40

Date Collected: 10/06/21 13:15

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:28	10/18/21 00:12	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:28	10/18/21 00:12	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:28	10/18/21 00:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 10:28	10/18/21 00:12	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:28	10/18/21 00:12	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 10:28	10/18/21 00:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			10/14/21 10:28	10/18/21 00:12	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130			10/14/21 10:28	10/18/21 00:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 19:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 19:18	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:38	10/13/21 19:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/12/21 11:38	10/13/21 19:18	1
o-Terphenyl	124		70 - 130			10/12/21 11:38	10/13/21 19:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1810		24.8	mg/Kg			10/14/21 07:04	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-986

Lab Sample ID: 890-1373-41

Date Collected: 10/06/21 13:16

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199	mg/Kg		10/14/21 10:32	10/17/21 01:30	1
Toluene	<0.00199	U F1 F2	0.00199	mg/Kg		10/14/21 10:32	10/17/21 01:30	1
Ethylbenzene	<0.00199	U F1 F2	0.00199	mg/Kg		10/14/21 10:32	10/17/21 01:30	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398	mg/Kg		10/14/21 10:32	10/17/21 01:30	1
o-Xylene	<0.00199	U F1 F2	0.00199	mg/Kg		10/14/21 10:32	10/17/21 01:30	1
Xylenes, Total	<0.00398	U F1 F2	0.00398	mg/Kg		10/14/21 10:32	10/17/21 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/14/21 10:32	10/17/21 01:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/14/21 10:32	10/17/21 01:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 11:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 11:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 11:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	10/12/21 11:56	10/13/21 11:21	1
o-Terphenyl	117		70 - 130	10/12/21 11:56	10/13/21 11:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	643		4.95	mg/Kg			10/14/21 07:11	1

Client Sample ID: C-987

Lab Sample ID: 890-1373-42

Date Collected: 10/06/21 13:17

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 01:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 01:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 01:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:32	10/17/21 01:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 01:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:32	10/17/21 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/14/21 10:32	10/17/21 01:50	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/14/21 10:32	10/17/21 01:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-987

Lab Sample ID: 890-1373-42

Date Collected: 10/06/21 13:17

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 12:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 12:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 12:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			10/12/21 11:56	10/13/21 12:28	1
o-Terphenyl	110		70 - 130			10/12/21 11:56	10/13/21 12:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		5.01	mg/Kg			10/14/21 07:19	1

Client Sample ID: C-988

Lab Sample ID: 890-1373-43

Date Collected: 10/06/21 13:18

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:32	10/17/21 02:11	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:32	10/17/21 02:11	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:32	10/17/21 02:11	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:32	10/17/21 02:11	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:32	10/17/21 02:11	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:32	10/17/21 02:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			10/14/21 10:32	10/17/21 02:11	1
1,4-Difluorobenzene (Surr)	85		70 - 130			10/14/21 10:32	10/17/21 02:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 12:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 12:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-988

Lab Sample ID: 890-1373-43

Date Collected: 10/06/21 13:18

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 12:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/12/21 11:56	10/13/21 12:50	1
o-Terphenyl	107		70 - 130			10/12/21 11:56	10/13/21 12:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	577		4.98	mg/Kg			10/14/21 07:26	1

Client Sample ID: C-989

Lab Sample ID: 890-1373-44

Date Collected: 10/06/21 13:19

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 02:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 02:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 02:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:32	10/17/21 02:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 02:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:32	10/17/21 02:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			10/14/21 10:32	10/17/21 02:31	1
1,4-Difluorobenzene (Surr)	112		70 - 130			10/14/21 10:32	10/17/21 02:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 13:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 13:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 13:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/12/21 11:56	10/13/21 13:12	1
o-Terphenyl	112		70 - 130			10/12/21 11:56	10/13/21 13:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	662		4.99	mg/Kg			10/14/21 07:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-990

Lab Sample ID: 890-1373-45

Date Collected: 10/06/21 13:20

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 02:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 02:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 02:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:32	10/17/21 02:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 02:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:32	10/17/21 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/14/21 10:32	10/17/21 02:51	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/14/21 10:32	10/17/21 02:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 13:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 13:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	10/12/21 11:56	10/13/21 13:33	1
o-Terphenyl	118		70 - 130	10/12/21 11:56	10/13/21 13:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	927		4.95	mg/Kg			10/14/21 07:40	1

Client Sample ID: C-991

Lab Sample ID: 890-1373-46

Date Collected: 10/06/21 13:21

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 03:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 03:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 03:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:32	10/17/21 03:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 03:12	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:32	10/17/21 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/14/21 10:32	10/17/21 03:12	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/14/21 10:32	10/17/21 03:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-991

Lab Sample ID: 890-1373-46

Date Collected: 10/06/21 13:21

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 13:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 13:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/12/21 11:56	10/13/21 13:55	1
o-Terphenyl	114		70 - 130			10/12/21 11:56	10/13/21 13:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		4.99	mg/Kg			10/14/21 02:15	1

Client Sample ID: C-992

Lab Sample ID: 890-1373-47

Date Collected: 10/06/21 13:22

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 03:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 03:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 03:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:32	10/17/21 03:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 03:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:32	10/17/21 03:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			10/14/21 10:32	10/17/21 03:32	1
1,4-Difluorobenzene (Surr)	110		70 - 130			10/14/21 10:32	10/17/21 03:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 14:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 14:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-992

Lab Sample ID: 890-1373-47

Date Collected: 10/06/21 13:22

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			10/12/21 11:56	10/13/21 14:17	1
o-Terphenyl	109		70 - 130			10/12/21 11:56	10/13/21 14:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	405		5.01	mg/Kg			10/14/21 02:32	1

Client Sample ID: C-993

Lab Sample ID: 890-1373-48

Date Collected: 10/06/21 13:23

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:32	10/17/21 03:53	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:32	10/17/21 03:53	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:32	10/17/21 03:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 10:32	10/17/21 03:53	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:32	10/17/21 03:53	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 10:32	10/17/21 03:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/14/21 10:32	10/17/21 03:53	1
1,4-Difluorobenzene (Surr)	108		70 - 130			10/14/21 10:32	10/17/21 03:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 14:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 14:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 14:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			10/12/21 11:56	10/13/21 14:38	1
o-Terphenyl	110		70 - 130			10/12/21 11:56	10/13/21 14:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	685		4.97	mg/Kg			10/14/21 02:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-994

Lab Sample ID: 890-1373-49

Date Collected: 10/06/21 13:24

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 04:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 04:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 04:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:32	10/17/21 04:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 04:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:32	10/17/21 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/14/21 10:32	10/17/21 04:13	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/14/21 10:32	10/17/21 04:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 14:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 15:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 15:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	10/12/21 11:56	10/13/21 15:00	1
o-Terphenyl	111		70 - 130	10/12/21 11:56	10/13/21 15:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	226		4.95	mg/Kg			10/14/21 02:44	1

Client Sample ID: C-995

Lab Sample ID: 890-1373-50

Date Collected: 10/06/21 13:25

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 04:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 04:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 04:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:32	10/17/21 04:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 04:33	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:32	10/17/21 04:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/14/21 10:32	10/17/21 04:33	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/14/21 10:32	10/17/21 04:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-995

Lab Sample ID: 890-1373-50

Date Collected: 10/06/21 13:25

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 15:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 15:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 15:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			10/12/21 11:56	10/13/21 15:22	1
o-Terphenyl	113		70 - 130			10/12/21 11:56	10/13/21 15:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281		4.96	mg/Kg			10/14/21 02:49	1

Client Sample ID: C-996

Lab Sample ID: 890-1373-51

Date Collected: 10/06/21 13:26

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 06:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 06:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 06:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:32	10/17/21 06:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 06:22	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:32	10/17/21 06:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/14/21 10:32	10/17/21 06:22	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/14/21 10:32	10/17/21 06:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 16:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 16:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-996

Lab Sample ID: 890-1373-51

Date Collected: 10/06/21 13:26

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 16:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			10/12/21 11:56	10/13/21 16:06	1
o-Terphenyl	110		70 - 130			10/12/21 11:56	10/13/21 16:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	578		5.05	mg/Kg			10/14/21 03:06	1

Client Sample ID: C-997

Lab Sample ID: 890-1373-52

Date Collected: 10/06/21 13:27

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:32	10/17/21 06:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:32	10/17/21 06:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:32	10/17/21 06:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:32	10/17/21 06:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:32	10/17/21 06:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:32	10/17/21 06:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/14/21 10:32	10/17/21 06:43	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/14/21 10:32	10/17/21 06:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 16:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 16:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 16:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/12/21 11:56	10/13/21 16:28	1
o-Terphenyl	120		70 - 130			10/12/21 11:56	10/13/21 16:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		4.99	mg/Kg			10/14/21 03:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-998

Lab Sample ID: 890-1373-53

Date Collected: 10/06/21 13:28

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 07:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 07:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 07:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:32	10/17/21 07:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 07:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:32	10/17/21 07:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	10/14/21 10:32	10/17/21 07:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/14/21 10:32	10/17/21 07:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 16:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 16:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	10/12/21 11:56	10/13/21 16:49	1
o-Terphenyl	108		70 - 130	10/12/21 11:56	10/13/21 16:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.9		4.98	mg/Kg			10/14/21 03:17	1

Client Sample ID: C-999

Lab Sample ID: 890-1373-54

Date Collected: 10/06/21 13:29

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 07:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 07:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 07:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:32	10/17/21 07:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 07:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:32	10/17/21 07:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/14/21 10:32	10/17/21 07:23	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/14/21 10:32	10/17/21 07:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-999

Lab Sample ID: 890-1373-54

Date Collected: 10/06/21 13:29

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 17:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 17:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			10/12/21 11:56	10/13/21 17:10	1
o-Terphenyl	124		70 - 130			10/12/21 11:56	10/13/21 17:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.2		4.99	mg/Kg			10/14/21 03:23	1

Client Sample ID: C-1000

Lab Sample ID: 890-1373-55

Date Collected: 10/06/21 13:30

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:32	10/17/21 07:44	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:32	10/17/21 07:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:32	10/17/21 07:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 10:32	10/17/21 07:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:32	10/17/21 07:44	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 10:32	10/17/21 07:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/14/21 10:32	10/17/21 07:44	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/14/21 10:32	10/17/21 07:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 17:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 17:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-1000

Lab Sample ID: 890-1373-55

Date Collected: 10/06/21 13:30

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 17:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/12/21 11:56	10/13/21 17:31	1
o-Terphenyl	107		70 - 130			10/12/21 11:56	10/13/21 17:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	686		4.96	mg/Kg			10/14/21 03:28	1

Client Sample ID: C-1001

Lab Sample ID: 890-1373-56

Date Collected: 10/06/21 13:31

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 08:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 08:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:32	10/17/21 08:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:32	10/17/21 08:04	1
o-Xylene	0.00300		0.00199	mg/Kg		10/14/21 10:32	10/17/21 08:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:32	10/17/21 08:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			10/14/21 10:32	10/17/21 08:04	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/14/21 10:32	10/17/21 08:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 17:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 17:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 17:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/12/21 11:56	10/13/21 17:53	1
o-Terphenyl	115		70 - 130			10/12/21 11:56	10/13/21 17:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	536		5.05	mg/Kg			10/14/21 03:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-1002

Lab Sample ID: 890-1373-57

Date Collected: 10/06/21 13:32

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 08:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 08:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 08:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:32	10/17/21 08:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 08:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:32	10/17/21 08:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/14/21 10:32	10/17/21 08:25	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/14/21 10:32	10/17/21 08:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 18:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 18:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	10/12/21 11:56	10/13/21 18:14	1
o-Terphenyl	108		70 - 130	10/12/21 11:56	10/13/21 18:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	409		4.95	mg/Kg			10/14/21 03:51	1

Client Sample ID: C-1003

Lab Sample ID: 890-1373-58

Date Collected: 10/06/21 13:33

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:32	10/17/21 08:45	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:32	10/17/21 08:45	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:32	10/17/21 08:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 10:32	10/17/21 08:45	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:32	10/17/21 08:45	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 10:32	10/17/21 08:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	10/14/21 10:32	10/17/21 08:45	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/14/21 10:32	10/17/21 08:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-1003

Lab Sample ID: 890-1373-58

Date Collected: 10/06/21 13:33

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 18:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 18:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/12/21 11:56	10/13/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			10/12/21 11:56	10/13/21 18:35	1
o-Terphenyl	124		70 - 130			10/12/21 11:56	10/13/21 18:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	475		5.04	mg/Kg			10/14/21 03:57	1

Client Sample ID: C-1004

Lab Sample ID: 890-1373-59

Date Collected: 10/06/21 13:34

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:32	10/17/21 09:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:32	10/17/21 09:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:32	10/17/21 09:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:32	10/17/21 09:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:32	10/17/21 09:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:32	10/17/21 09:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			10/14/21 10:32	10/17/21 09:05	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/14/21 10:32	10/17/21 09:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 18:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 18:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-1004

Lab Sample ID: 890-1373-59

Date Collected: 10/06/21 13:34

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			10/12/21 11:56	10/13/21 18:57	1
o-Terphenyl	131	S1+	70 - 130			10/12/21 11:56	10/13/21 18:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	489		5.00	mg/Kg			10/14/21 04:13	1

Client Sample ID: C-1005

Lab Sample ID: 890-1373-60

Date Collected: 10/06/21 13:35

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:32	10/17/21 09:26	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:32	10/17/21 09:26	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:32	10/17/21 09:26	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/14/21 10:32	10/17/21 09:26	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 10:32	10/17/21 09:26	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/14/21 10:32	10/17/21 09:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			10/14/21 10:32	10/17/21 09:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/14/21 10:32	10/17/21 09:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 19:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 19:18	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/21 11:56	10/13/21 19:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/12/21 11:56	10/13/21 19:18	1
o-Terphenyl	116		70 - 130			10/12/21 11:56	10/13/21 19:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	579		4.95	mg/Kg			10/14/21 04:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-1006

Lab Sample ID: 890-1373-61

Date Collected: 10/06/21 13:36

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		10/11/21 11:51	10/15/21 07:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 07:59	1
Ethylbenzene	0.00322		0.00200	mg/Kg		10/11/21 11:51	10/15/21 07:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/11/21 11:51	10/15/21 07:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 07:59	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/11/21 11:51	10/15/21 07:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	10/11/21 11:51	10/15/21 07:59	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/11/21 11:51	10/15/21 07:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/13/21 11:33	10/13/21 23:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/13/21 11:33	10/13/21 23:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/13/21 11:33	10/13/21 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	10/13/21 11:33	10/13/21 23:36	1
o-Terphenyl	115		70 - 130	10/13/21 11:33	10/13/21 23:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		4.99	mg/Kg			10/14/21 04:25	1

Client Sample ID: C-1007

Lab Sample ID: 890-1373-62

Date Collected: 10/06/21 13:37

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *1	0.00202	mg/Kg		10/11/21 11:51	10/15/21 08:20	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/11/21 11:51	10/15/21 08:20	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/11/21 11:51	10/15/21 08:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/11/21 11:51	10/15/21 08:20	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/11/21 11:51	10/15/21 08:20	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/11/21 11:51	10/15/21 08:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/11/21 11:51	10/15/21 08:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/11/21 11:51	10/15/21 08:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-1007

Lab Sample ID: 890-1373-62

Date Collected: 10/06/21 13:37

Matrix: Solid

Date Received: 10/06/21 16:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/13/21 11:33	10/13/21 23:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/13/21 11:33	10/13/21 23:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/13/21 11:33	10/13/21 23:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			10/13/21 11:33	10/13/21 23:56	1
o-Terphenyl	111		70 - 130			10/13/21 11:33	10/13/21 23:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1190		5.05	mg/Kg			10/14/21 04:30	1

Client Sample ID: C-1008

Lab Sample ID: 890-1373-63

Date Collected: 10/06/21 13:38

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		10/11/21 11:51	10/15/21 08:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:51	10/15/21 08:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:51	10/15/21 08:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/11/21 11:51	10/15/21 08:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:51	10/15/21 08:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/11/21 11:51	10/15/21 08:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/11/21 11:51	10/15/21 08:40	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/11/21 11:51	10/15/21 08:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/13/21 11:33	10/14/21 00:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/13/21 11:33	10/14/21 00:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-1008

Lab Sample ID: 890-1373-63

Date Collected: 10/06/21 13:38

Matrix: Solid

Date Received: 10/06/21 16:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/13/21 11:33	10/14/21 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	10/13/21 11:33	10/14/21 00:16	1
o-Terphenyl	112		70 - 130	10/13/21 11:33	10/14/21 00:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1930		25.0	mg/Kg			10/14/21 04:36	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1368-A-1-H MSD	Matrix Spike Duplicate	124	10 S1-
890-1368-A-1-J MS	Matrix Spike	1186 S1+	49 S1-
890-1373-1	C-946	127	101
890-1373-1 MS	C-946	124	83
890-1373-1 MSD	C-946	92	107
890-1373-2	C-947	97	98
890-1373-3	C-948	71	84
890-1373-4	C-949	101	102
890-1373-5	C-950	73	85
890-1373-6	C-951	158 S1+	86
890-1373-7	C-952	107	74
890-1373-8	C-953	87	96
890-1373-9	C-954	134 S1+	71
890-1373-10	C-955	276 S1+	105
890-1373-11	C-956	177 S1+	88
890-1373-12	C-957	121	100
890-1373-13	C-958	125	79
890-1373-14	C-959	67 S1-	91
890-1373-15	C-960	84	86
890-1373-16	C-961	163 S1+	90
890-1373-17	C-962	86	94
890-1373-18	C-963	93	97
890-1373-19	C-964	82	64 S1-
890-1373-20	C-965	169 S1+	117
890-1373-21	C-967	168 S1+	104
890-1373-21 MS	C-967	74	83
890-1373-21 MSD	C-967	108	102
890-1373-22	C-968	81	94
890-1373-23	C-969	98	265 S1+
890-1373-24	C-970	96	101
890-1373-25	C-971	71	79
890-1373-26	C-972	99	104
890-1373-27	C-973	85	130
890-1373-28	C-974	112	80
890-1373-29	C-975	114	133 S1+
890-1373-30	C-906	114	84
890-1373-31	C-976	84	123
890-1373-32	C-977	81	114
890-1373-33	C-978	86	107
890-1373-34	C-979	83	99
890-1373-35	C-980	73	101
890-1373-36	C-981	132 S1+	107
890-1373-37	C-982	88	96
890-1373-38	C-983	73	78
890-1373-39	C-984	118	160 S1+
890-1373-40	C-985	140 S1+	67 S1-
890-1373-41	C-986	93	103
890-1373-41 MS	C-986	90	103
890-1373-41 MSD	C-986	94	77

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1373-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1373-42	C-987	97	104
890-1373-43	C-988	97	85
890-1373-44	C-989	121	112
890-1373-45	C-990	98	103
890-1373-46	C-991	96	105
890-1373-47	C-992	102	110
890-1373-48	C-993	98	108
890-1373-49	C-994	98	103
890-1373-50	C-995	102	107
890-1373-51	C-996	98	106
890-1373-52	C-997	99	106
890-1373-53	C-998	124	99
890-1373-54	C-999	96	103
890-1373-55	C-1000	95	107
890-1373-56	C-1001	108	106
890-1373-57	C-1002	96	101
890-1373-58	C-1003	94	104
890-1373-59	C-1004	106	99
890-1373-60	C-1005	93	103
890-1373-61	C-1006	106	104
890-1373-62	C-1007	92	102
890-1373-63	C-1008	99	104
LCS 880-9203/1-A	Lab Control Sample	87	80
LCS 880-9205/1-A	Lab Control Sample	92	104
LCS 880-9448/1-A	Lab Control Sample	82	89
LCS 880-9449/1-A	Lab Control Sample	84	101
LCSD 880-9203/2-A	Lab Control Sample Dup	85	100
LCSD 880-9205/2-A	Lab Control Sample Dup	90	107
LCSD 880-9448/2-A	Lab Control Sample Dup	87	92
LCSD 880-9449/2-A	Lab Control Sample Dup	89	105
MB 880-9203/5-A	Method Blank	101	104
MB 880-9204/5-A	Method Blank	55 S1-	92
MB 880-9205/5-A	Method Blank	54 S1-	91
MB 880-9306/5-A	Method Blank	100	106
MB 880-9448/5-A	Method Blank	126	126
MB 880-9449/5-A	Method Blank	97	102
MB 880-9452/5-A	Method Blank	101	109

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1370-A-1-E MS	Matrix Spike	115	115
890-1370-A-1-F MSD	Matrix Spike Duplicate	112	111
890-1373-1	C-946	104	120

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1373-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-1373-1 MS	C-946	97	97
890-1373-1 MSD	C-946	100	100
890-1373-2	C-947	100	110
890-1373-3	C-948	98	105
890-1373-4	C-949	97	108
890-1373-5	C-950	104	112
890-1373-6	C-951	102	110
890-1373-7	C-952	101	112
890-1373-8	C-953	103	117
890-1373-9	C-954	98	103
890-1373-10	C-955	106	117
890-1373-11	C-956	103	111
890-1373-12	C-957	101	111
890-1373-13	C-958	104	115
890-1373-14	C-959	101	113
890-1373-15	C-960	102	115
890-1373-16	C-961	101	115
890-1373-17	C-962	97	111
890-1373-18	C-963	100	116
890-1373-19	C-964	102	116
890-1373-20	C-965	98	111
890-1373-21	C-967	126	140 S1+
890-1373-21 MS	C-967	109	112
890-1373-21 MSD	C-967	108	107
890-1373-22	C-968	113	124
890-1373-23	C-969	112	124
890-1373-24	C-970	113	124
890-1373-25	C-971	111	126
890-1373-26	C-972	114	127
890-1373-27	C-973	114	126
890-1373-28	C-974	106	119
890-1373-29	C-975	111	122
890-1373-30	C-906	109	118
890-1373-31	C-976	111	127
890-1373-32	C-977	118	130
890-1373-33	C-978	109	126
890-1373-34	C-979	115	129
890-1373-35	C-980	115	128
890-1373-36	C-981	111	128
890-1373-37	C-982	111	128
890-1373-38	C-983	109	127
890-1373-39	C-984	111	123
890-1373-40	C-985	107	124
890-1373-41	C-986	106	117
890-1373-41 MS	C-986	105	101
890-1373-41 MSD	C-986	103	99
890-1373-42	C-987	103	110
890-1373-43	C-988	102	107
890-1373-44	C-989	105	112
890-1373-45	C-990	109	118

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1373-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1373-46	C-991	107	114
890-1373-47	C-992	103	109
890-1373-48	C-993	103	110
890-1373-49	C-994	102	111
890-1373-50	C-995	103	113
890-1373-51	C-996	103	110
890-1373-52	C-997	117	120
890-1373-53	C-998	102	108
890-1373-54	C-999	119	124
890-1373-55	C-1000	102	107
890-1373-56	C-1001	109	115
890-1373-57	C-1002	103	108
890-1373-58	C-1003	115	124
890-1373-59	C-1004	119	131 S1+
890-1373-60	C-1005	107	116
890-1373-61	C-1006	102	115
890-1373-62	C-1007	99	111
890-1373-63	C-1008	101	112
LCS 880-9299/2-A	Lab Control Sample	94	93
LCS 880-9300/2-A	Lab Control Sample	101	105
LCS 880-9302/2-A	Lab Control Sample	107	107
LCS 880-9371/2-A	Lab Control Sample	81	82
LCSD 880-9299/3-A	Lab Control Sample Dup	83	85
LCSD 880-9300/3-A	Lab Control Sample Dup	102	108
LCSD 880-9302/3-A	Lab Control Sample Dup	95	93
LCSD 880-9371/3-A	Lab Control Sample Dup	86	86
MB 880-9299/1-A	Method Blank	111	134 S1+
MB 880-9300/1-A	Method Blank	113	126
MB 880-9302/1-A	Method Blank	110	123
MB 880-9371/1-A	Method Blank	107	123

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9203/5-A

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9203

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 00:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 00:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 00:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/11/21 11:51	10/15/21 00:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 00:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/21 11:51	10/15/21 00:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/11/21 11:51	10/15/21 00:15	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/11/21 11:51	10/15/21 00:15	1

Lab Sample ID: LCS 880-9203/1-A

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07006		mg/Kg		70	70 - 130
Toluene	0.100	0.07910		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08412		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1588		mg/Kg		79	70 - 130
o-Xylene	0.100	0.08688		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: LCSD 880-9203/2-A

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9203

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1032	*1	mg/Kg		103	70 - 130	38	35
Toluene	0.100	0.1035		mg/Kg		103	70 - 130	27	35
Ethylbenzene	0.100	0.1105		mg/Kg		110	70 - 130	27	35
m-Xylene & p-Xylene	0.200	0.2112		mg/Kg		106	70 - 130	28	35
o-Xylene	0.100	0.1090		mg/Kg		109	70 - 130	23	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-1368-A-1-H MSD

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9203

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U *1 F1 F2	0.0990	0.006864	F1 F2	mg/Kg		7	70 - 130	183	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1368-A-1-H MSD

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9203

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	<0.00199	U F1 F2	0.0990	0.002203	F1 F2	mg/Kg		2	70 - 130	186	35
Ethylbenzene	<0.00199	U F1 F2	0.0990	0.01848	F1 F2	mg/Kg		19	70 - 130	71	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.05743	F1	mg/Kg		29	70 - 130	7	35
o-Xylene	<0.00199	U F1 F2	0.0990	0.03581	F1 F2	mg/Kg		36	70 - 130	63	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	10	S1-	70 - 130

Lab Sample ID: 890-1368-A-1-J MS

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9203

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U *1 F1 F2	0.100	0.1553	F1	mg/Kg		155	70 - 130
Toluene	<0.00199	U F1 F2	0.100	0.06144	F1	mg/Kg		61	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.100	0.03870	F1	mg/Kg		39	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.05344	F1	mg/Kg		27	70 - 130
o-Xylene	<0.00199	U F1 F2	0.100	0.06883	F1	mg/Kg		69	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	1186	S1+	70 - 130
1,4-Difluorobenzene (Surr)	49	S1-	70 - 130

Lab Sample ID: MB 880-9204/5-A

Matrix: Solid

Analysis Batch: 9436

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9204

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:53	10/14/21 12:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:53	10/14/21 12:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:53	10/14/21 12:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/11/21 11:53	10/14/21 12:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:53	10/14/21 12:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/21 11:53	10/14/21 12:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130	10/11/21 11:53	10/14/21 12:53	1
1,4-Difluorobenzene (Surr)	92		70 - 130	10/11/21 11:53	10/14/21 12:53	1

Lab Sample ID: MB 880-9205/5-A

Matrix: Solid

Analysis Batch: 9436

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9205

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 02:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 02:23	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-9205/5-A

Matrix: Solid

Analysis Batch: 9436

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9205

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 02:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/11/21 11:57	10/15/21 02:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:57	10/15/21 02:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/21 11:57	10/15/21 02:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130	10/11/21 11:57	10/15/21 02:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/11/21 11:57	10/15/21 02:23	1

Lab Sample ID: LCS 880-9205/1-A

Matrix: Solid

Analysis Batch: 9436

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08477		mg/Kg		85	70 - 130
Toluene	0.100	0.09184		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.08633		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1699		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08784		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-9205/2-A

Matrix: Solid

Analysis Batch: 9436

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9205

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08387		mg/Kg		84	70 - 130	1	35
Toluene	0.100	0.07742		mg/Kg		77	70 - 130	17	35
Ethylbenzene	0.100	0.08240		mg/Kg		82	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1620		mg/Kg		81	70 - 130	5	35
o-Xylene	0.100	0.08349		mg/Kg		83	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-1373-1 MS

Matrix: Solid

Analysis Batch: 9436

Client Sample ID: C-946

Prep Type: Total/NA

Prep Batch: 9205

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1 F2	0.0990	0.01936	F1	mg/Kg		20	70 - 130
Toluene	<0.00199	U F1 F2	0.0990	0.02725	F1	mg/Kg		28	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.0990	0.03928	F1	mg/Kg		40	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.198	0.05495	F1	mg/Kg		28	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1373-1 MS

Matrix: Solid

Analysis Batch: 9436

Client Sample ID: C-946

Prep Type: Total/NA

Prep Batch: 9205

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	<0.00199	U F1 F2	0.0990	0.02344	F1	mg/Kg		24	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 890-1373-1 MSD

Matrix: Solid

Analysis Batch: 9436

Client Sample ID: C-946

Prep Type: Total/NA

Prep Batch: 9205

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1 F2	0.0998	0.06662	F1 F2	mg/Kg		67	70 - 130	110	35
Toluene	<0.00199	U F1 F2	0.0998	0.05882	F1 F2	mg/Kg		59	70 - 130	73	35
Ethylbenzene	<0.00199	U F1 F2	0.0998	0.06597	F1 F2	mg/Kg		66	70 - 130	51	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1288	F1 F2	mg/Kg		65	70 - 130	80	35
o-Xylene	<0.00199	U F1 F2	0.0998	0.06836	F1 F2	mg/Kg		68	70 - 130	98	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-9306/5-A

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9306

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:26	10/14/21 12:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:26	10/14/21 12:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:26	10/14/21 12:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/12/21 12:26	10/14/21 12:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:26	10/14/21 12:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/12/21 12:26	10/14/21 12:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/12/21 12:26	10/14/21 12:41	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/12/21 12:26	10/14/21 12:41	1

Lab Sample ID: MB 880-9448/5-A

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9448

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 16:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 16:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 16:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:28	10/17/21 16:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 16:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:28	10/17/21 16:14	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	10/14/21 10:28	10/17/21 16:14	1
1,4-Difluorobenzene (Surr)	126		70 - 130	10/14/21 10:28	10/17/21 16:14	1

Lab Sample ID: LCS 880-9448/1-A

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08419		mg/Kg		84	70 - 130
Toluene	0.100	0.08971		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08681		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1548		mg/Kg		77	70 - 130
o-Xylene	0.100	0.07184		mg/Kg		72	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-9448/2-A

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9448

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07850		mg/Kg		79	70 - 130	7	35
Toluene	0.100	0.09906		mg/Kg		99	70 - 130	10	35
Ethylbenzene	0.100	0.09366		mg/Kg		94	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1642		mg/Kg		82	70 - 130	6	35
o-Xylene	0.100	0.07826		mg/Kg		78	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-1373-21 MS

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: C-967

Prep Type: Total/NA

Prep Batch: 9448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.100	<0.00201	U F1	mg/Kg		0	70 - 130
Toluene	<0.00198	U F1	0.100	<0.00201	U F1	mg/Kg		0	70 - 130
Ethylbenzene	<0.00198	U F1	0.100	<0.00201	U F1	mg/Kg		0	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.201	<0.00402	U F1	mg/Kg		0	70 - 130
o-Xylene	<0.00198	U F1	0.100	<0.00201	U F1	mg/Kg		0	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	74		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1373-21 MSD

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: C-967

Prep Type: Total/NA

Prep Batch: 9448

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.01183	F1	mg/Kg		12	70 - 130	NC	35
Toluene	<0.00198	U F1	0.100	<0.00200	U F1	mg/Kg		1	70 - 130	NC	35
Ethylbenzene	<0.00198	U F1	0.100	<0.00200	U F1	mg/Kg		1	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.01162	F1	mg/Kg		6	70 - 130	NC	35
o-Xylene	<0.00198	U F1	0.100	0.004012	F1	mg/Kg		4	70 - 130	NC	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-9449/5-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9449

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 01:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 01:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 01:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:32	10/17/21 01:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 01:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:32	10/17/21 01:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/14/21 10:32	10/17/21 01:01	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/14/21 10:32	10/17/21 01:01	1

Lab Sample ID: LCS 880-9449/1-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1093		mg/Kg		109	70 - 130
Toluene	0.100	0.1100		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1081		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2110		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-9449/2-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9449

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1130		mg/Kg		113	70 - 130	3	35
Toluene	0.100	0.1171		mg/Kg		117	70 - 130	6	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-9449/2-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9449

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.1192		mg/Kg		119	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2339		mg/Kg		117	70 - 130	10	35
o-Xylene	0.100	0.1200		mg/Kg		120	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-1373-41 MS

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: C-986

Prep Type: Total/NA

Prep Batch: 9449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.100	0.09303		mg/Kg		92	70 - 130		
Toluene	<0.00199	U F1 F2	0.100	0.1096		mg/Kg		108	70 - 130		
Ethylbenzene	<0.00199	U F1 F2	0.100	0.1032		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1950		mg/Kg		97	70 - 130		
o-Xylene	<0.00199	U F1 F2	0.100	0.1036		mg/Kg		103	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1373-41 MSD

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: C-986

Prep Type: Total/NA

Prep Batch: 9449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.0998	0.04598	F1 F2	mg/Kg		45	70 - 130	68	35
Toluene	<0.00199	U F1 F2	0.0998	0.05856	F1 F2	mg/Kg		57	70 - 130	61	35
Ethylbenzene	<0.00199	U F1 F2	0.0998	0.05075	F1 F2	mg/Kg		50	70 - 130	68	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1023	F1 F2	mg/Kg		51	70 - 130	62	35
o-Xylene	<0.00199	U F1 F2	0.0998	0.06040	F1 F2	mg/Kg		60	70 - 130	53	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: MB 880-9452/5-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9452

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:28	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-9452/5-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9452

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			10/14/21 10:45	10/16/21 13:28	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/14/21 10:45	10/16/21 13:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-9299/1-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9299

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 11:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 11:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:13	10/13/21 11:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/12/21 11:13	10/13/21 11:19	1
o-Terphenyl	134	S1+	70 - 130			10/12/21 11:13	10/13/21 11:19	1

Lab Sample ID: LCS 880-9299/2-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1031		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	927.5		mg/Kg		93	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	94		70 - 130				
o-Terphenyl	93		70 - 130				

Lab Sample ID: LCSD 880-9299/3-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9299

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	979.7		mg/Kg		98	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	892.5		mg/Kg		89	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	83		70 - 130						

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-9299/3-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9299

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	85		70 - 130

Lab Sample ID: 890-1373-1 MS

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: C-946

Prep Type: Total/NA

Prep Batch: 9299

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1234		mg/Kg		121	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	988.5		mg/Kg		99	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	97		70 - 130						
<i>o</i> -Terphenyl	97		70 - 130						

Lab Sample ID: 890-1373-1 MSD

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: C-946

Prep Type: Total/NA

Prep Batch: 9299

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1294		mg/Kg		127	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1035		mg/Kg		103	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
<i>o</i> -Terphenyl	100		70 - 130								

Lab Sample ID: MB 880-9300/1-A

Matrix: Solid

Analysis Batch: 9358

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9300

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 10:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 10:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:38	10/13/21 10:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/12/21 11:38	10/13/21 10:15	1
<i>o</i> -Terphenyl	126		70 - 130			10/12/21 11:38	10/13/21 10:15	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-9300/2-A

Matrix: Solid

Analysis Batch: 9358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9300

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	951.8		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1014		mg/Kg		101	70 - 130		

Lab Sample ID: LCSD 880-9300/3-A

Matrix: Solid

Analysis Batch: 9358

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9300

Top Bottom 0000											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	858.1		mg/Kg		86	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	931.6		mg/Kg		93	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	108		70 - 130								

Lab Sample ID: 890-1373-21 MS

Matrix: Solid

Analysis Batch: 9358

Client Sample ID: C-967

Prep Type: Total/NA

Prep Batch: 9300

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1043		mg/Kg		105	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1087		mg/Kg		109	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	109		70 - 130								
o-Terphenyl	112		70 - 130								

Lab Sample ID: 890-1373-21 MSD

Matrix: Solid

Analysis Batch: 9358

Client Sample ID: C-967

Prep Type: Total/NA

Prep Batch: 9300

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1058		mg/Kg		106	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1053		mg/Kg		105	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	108		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1373-21 MSD

Matrix: Solid

Analysis Batch: 9358

Client Sample ID: C-967

Prep Type: Total/NA

Prep Batch: 9300

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	107		70 - 130

Lab Sample ID: MB 880-9302/1-A

Matrix: Solid

Analysis Batch: 9360

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9302

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 10:15	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 10:15	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/12/21 11:56	10/13/21 10:15	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	110		70 - 130			10/12/21 11:56	10/13/21 10:15	1	
<i>o</i> -Terphenyl	123		70 - 130			10/12/21 11:56	10/13/21 10:15	1	

Lab Sample ID: LCS 880-9302/2-A

Matrix: Solid

Analysis Batch: 9360

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9302

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1010		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1253		mg/Kg		125	70 - 130		
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
<i>o</i> -Terphenyl	107		70 - 130						

Lab Sample ID: LCSD 880-9302/3-A

Matrix: Solid

Analysis Batch: 9360

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9302

	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	852.9		mg/Kg		85	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	1021		mg/Kg		102	70 - 130	20	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	95		70 - 130						
<i>o</i> -Terphenyl	93		70 - 130						

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1373-41 MS

Matrix: Solid

Analysis Batch: 9360

Client Sample ID: C-986

Prep Type: Total/NA

Prep Batch: 9302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1044		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1131		mg/Kg		113	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	105		70 - 130						
o-Terphenyl	101		70 - 130						

Lab Sample ID: 890-1373-41 MSD

Matrix: Solid

Analysis Batch: 9360

Client Sample ID: C-986

Prep Type: Total/NA

Prep Batch: 9302

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1029		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1117		mg/Kg		112	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	99		70 - 130								

Lab Sample ID: MB 880-9371/1-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9371

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/13/21 11:33	10/13/21 20:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/13/21 11:33	10/13/21 20:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/13/21 11:33	10/13/21 20:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/13/21 11:33	10/13/21 20:52	1
o-Terphenyl	123		70 - 130			10/13/21 11:33	10/13/21 20:52	1

Lab Sample ID: LCS 880-9371/2-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9371

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1243		mg/Kg		124	70 - 130
Diesel Range Organics (Over C10-C28)	1000	848.4		mg/Kg		85	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-9371/2-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9371

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: LCSD 880-9371/3-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9371

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1252		mg/Kg		125	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	831.2		mg/Kg		83	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 890-1370-A-1-E MS

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9371

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1402	F1	mg/Kg		141	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1076		mg/Kg		106	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-1370-A-1-F MSD

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9371

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	1334	F1	mg/Kg		133	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1043		mg/Kg		103	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	111		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9208/1-A

Matrix: Solid

Analysis Batch: 9381

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/14/21 04:05	1

Lab Sample ID: LCS 880-9208/2-A

Matrix: Solid

Analysis Batch: 9381

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	260.5		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-9208/3-A

Matrix: Solid

Analysis Batch: 9381

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	263.5		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-1373-26 MS

Matrix: Solid

Analysis Batch: 9381

Client Sample ID: C-972

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	107		248	375.5		mg/Kg		108	90 - 110

Lab Sample ID: 890-1373-26 MSD

Matrix: Solid

Analysis Batch: 9381

Client Sample ID: C-972

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	107		248	379.2		mg/Kg		110	90 - 110	1	20

Lab Sample ID: 890-1373-36 MS

Matrix: Solid

Analysis Batch: 9381

Client Sample ID: C-981

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	224	F1	250	445.6	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-1373-36 MSD

Matrix: Solid

Analysis Batch: 9381

Client Sample ID: C-981

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	224	F1	250	453.7		mg/Kg		92	90 - 110	2	20

Lab Sample ID: MB 880-9209/1-A

Matrix: Solid

Analysis Batch: 9384

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/14/21 01:58	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-9209/2-A

Matrix: Solid

Analysis Batch: 9384

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	249.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-9209/3-A

Matrix: Solid

Analysis Batch: 9384

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.5		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1373-46 MS

Matrix: Solid

Analysis Batch: 9384

Client Sample ID: C-991

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1150		250	1367	4	mg/Kg		87	90 - 110

Lab Sample ID: 890-1373-46 MSD

Matrix: Solid

Analysis Batch: 9384

Client Sample ID: C-991

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1150		250	1370	4	mg/Kg		89	90 - 110	0	20

Lab Sample ID: 890-1373-56 MS

Matrix: Solid

Analysis Batch: 9384

Client Sample ID: C-1001

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	536		253	787.9		mg/Kg		100	90 - 110

Lab Sample ID: 890-1373-56 MSD

Matrix: Solid

Analysis Batch: 9384

Client Sample ID: C-1001

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	536		253	789.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-9410/1-A

Matrix: Solid

Analysis Batch: 9526

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/15/21 09:20	1

Lab Sample ID: LCS 880-9410/2-A

Matrix: Solid

Analysis Batch: 9526

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	230.1		mg/Kg		92	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-9410/3-A

Matrix: Solid

Analysis Batch: 9526

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	244.9		mg/Kg		98	90 - 110	6	20

Lab Sample ID: 890-1373-5 MS

Matrix: Solid

Analysis Batch: 9526

Client Sample ID: C-950

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	322	F1	249	550.5		mg/Kg		92	90 - 110		

Lab Sample ID: 890-1373-5 MSD

Matrix: Solid

Analysis Batch: 9526

Client Sample ID: C-950

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	322	F1	249	518.7	F1	mg/Kg		79	90 - 110	6	20

Lab Sample ID: 890-1373-15 MS

Matrix: Solid

Analysis Batch: 9526

Client Sample ID: C-960

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	73.3	F1	250	281.5	F1	mg/Kg		83	90 - 110		

Lab Sample ID: 890-1373-15 MSD

Matrix: Solid

Analysis Batch: 9526

Client Sample ID: C-960

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	73.3	F1	250	269.8	F1	mg/Kg		79	90 - 110	4	20

Lab Sample ID: MB 880-9409/1-A

Matrix: Solid

Analysis Batch: 9528

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/15/21 09:50	1

Lab Sample ID: LCS 880-9409/2-A

Matrix: Solid

Analysis Batch: 9528

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	255.4		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-9409/3-A

Matrix: Solid

Analysis Batch: 9528

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	256.1		mg/Kg		102	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1371-A-2-D MS

Matrix: Solid

Analysis Batch: 9528

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	26.6		250	268.7		mg/Kg		97	90 - 110

Lab Sample ID: 890-1371-A-2-E MSD

Matrix: Solid

Analysis Batch: 9528

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	26.6		250	269.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-9411/1-A

Matrix: Solid

Analysis Batch: 9545

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/15/21 18:56	1

Lab Sample ID: LCS 880-9411/2-A

Matrix: Solid

Analysis Batch: 9545

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	257.9		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-9411/3-A

Matrix: Solid

Analysis Batch: 9545

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	259.0		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-1383-A-9-B MS

Matrix: Solid

Analysis Batch: 9545

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.1		250	240.7		mg/Kg		90	90 - 110

Lab Sample ID: 890-1383-A-9-C MSD

Matrix: Solid

Analysis Batch: 9545

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	16.1		250	241.5		mg/Kg		90	90 - 110	0	20

Lab Sample ID: MB 880-9417/1-A

Matrix: Solid

Analysis Batch: 9634

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/17/21 23:50	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-9417/2-A

Matrix: Solid

Analysis Batch: 9634

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	255.4		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-9417/3-A

Matrix: Solid

Analysis Batch: 9634

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	255.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-7163-A-3-B MS

Matrix: Solid

Analysis Batch: 9634

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	58.3	F1	250	334.6	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-7163-A-3-C MSD

Matrix: Solid

Analysis Batch: 9634

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	58.3	F1	250	334.2		mg/Kg		110	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

GC VOA

Prep Batch: 9203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-61	C-1006	Total/NA	Solid	5035	
890-1373-62	C-1007	Total/NA	Solid	5035	
890-1373-63	C-1008	Total/NA	Solid	5035	
MB 880-9203/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9203/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9203/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1368-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
890-1368-A-1-J MS	Matrix Spike	Total/NA	Solid	5035	

Prep Batch: 9204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9204/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 9205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-1	C-946	Total/NA	Solid	5035	
890-1373-2	C-947	Total/NA	Solid	5035	
890-1373-3	C-948	Total/NA	Solid	5035	
890-1373-4	C-949	Total/NA	Solid	5035	
890-1373-5	C-950	Total/NA	Solid	5035	
890-1373-6	C-951	Total/NA	Solid	5035	
890-1373-7	C-952	Total/NA	Solid	5035	
890-1373-8	C-953	Total/NA	Solid	5035	
890-1373-9	C-954	Total/NA	Solid	5035	
890-1373-10	C-955	Total/NA	Solid	5035	
890-1373-11	C-956	Total/NA	Solid	5035	
890-1373-12	C-957	Total/NA	Solid	5035	
890-1373-13	C-958	Total/NA	Solid	5035	
890-1373-14	C-959	Total/NA	Solid	5035	
890-1373-15	C-960	Total/NA	Solid	5035	
890-1373-16	C-961	Total/NA	Solid	5035	
890-1373-17	C-962	Total/NA	Solid	5035	
890-1373-18	C-963	Total/NA	Solid	5035	
890-1373-19	C-964	Total/NA	Solid	5035	
890-1373-20	C-965	Total/NA	Solid	5035	
MB 880-9205/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9205/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9205/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1373-1 MS	C-946	Total/NA	Solid	5035	
890-1373-1 MSD	C-946	Total/NA	Solid	5035	

Prep Batch: 9306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9306/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 9436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-1	C-946	Total/NA	Solid	8021B	9205
890-1373-2	C-947	Total/NA	Solid	8021B	9205
890-1373-3	C-948	Total/NA	Solid	8021B	9205
890-1373-4	C-949	Total/NA	Solid	8021B	9205

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9436 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-5	C-950	Total/NA	Solid	8021B	9205
890-1373-6	C-951	Total/NA	Solid	8021B	9205
890-1373-7	C-952	Total/NA	Solid	8021B	9205
890-1373-8	C-953	Total/NA	Solid	8021B	9205
890-1373-9	C-954	Total/NA	Solid	8021B	9205
890-1373-10	C-955	Total/NA	Solid	8021B	9205
890-1373-11	C-956	Total/NA	Solid	8021B	9205
890-1373-12	C-957	Total/NA	Solid	8021B	9205
890-1373-13	C-958	Total/NA	Solid	8021B	9205
890-1373-14	C-959	Total/NA	Solid	8021B	9205
890-1373-15	C-960	Total/NA	Solid	8021B	9205
890-1373-16	C-961	Total/NA	Solid	8021B	9205
890-1373-17	C-962	Total/NA	Solid	8021B	9205
890-1373-18	C-963	Total/NA	Solid	8021B	9205
890-1373-19	C-964	Total/NA	Solid	8021B	9205
890-1373-20	C-965	Total/NA	Solid	8021B	9205
MB 880-9204/5-A	Method Blank	Total/NA	Solid	8021B	9204
MB 880-9205/5-A	Method Blank	Total/NA	Solid	8021B	9205
LCS 880-9205/1-A	Lab Control Sample	Total/NA	Solid	8021B	9205
LCSD 880-9205/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9205
890-1373-1 MS	C-946	Total/NA	Solid	8021B	9205
890-1373-1 MSD	C-946	Total/NA	Solid	8021B	9205

Analysis Batch: 9437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-61	C-1006	Total/NA	Solid	8021B	9203
890-1373-62	C-1007	Total/NA	Solid	8021B	9203
890-1373-63	C-1008	Total/NA	Solid	8021B	9203
MB 880-9203/5-A	Method Blank	Total/NA	Solid	8021B	9203
MB 880-9306/5-A	Method Blank	Total/NA	Solid	8021B	9306
LCS 880-9203/1-A	Lab Control Sample	Total/NA	Solid	8021B	9203
LCSD 880-9203/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9203
890-1368-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9203
890-1368-A-1-J MS	Matrix Spike	Total/NA	Solid	8021B	9203

Prep Batch: 9448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-21	C-967	Total/NA	Solid	5035	
890-1373-22	C-968	Total/NA	Solid	5035	
890-1373-23	C-969	Total/NA	Solid	5035	
890-1373-24	C-970	Total/NA	Solid	5035	
890-1373-25	C-971	Total/NA	Solid	5035	
890-1373-26	C-972	Total/NA	Solid	5035	
890-1373-27	C-973	Total/NA	Solid	5035	
890-1373-28	C-974	Total/NA	Solid	5035	
890-1373-29	C-975	Total/NA	Solid	5035	
890-1373-30	C-906	Total/NA	Solid	5035	
890-1373-31	C-976	Total/NA	Solid	5035	
890-1373-32	C-977	Total/NA	Solid	5035	
890-1373-33	C-978	Total/NA	Solid	5035	
890-1373-34	C-979	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 9448 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-35	C-980	Total/NA	Solid	5035	
890-1373-36	C-981	Total/NA	Solid	5035	
890-1373-37	C-982	Total/NA	Solid	5035	
890-1373-38	C-983	Total/NA	Solid	5035	
890-1373-39	C-984	Total/NA	Solid	5035	
890-1373-40	C-985	Total/NA	Solid	5035	
MB 880-9448/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9448/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9448/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1373-21 MS	C-967	Total/NA	Solid	5035	
890-1373-21 MSD	C-967	Total/NA	Solid	5035	

Prep Batch: 9449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-41	C-986	Total/NA	Solid	5035	
890-1373-42	C-987	Total/NA	Solid	5035	
890-1373-43	C-988	Total/NA	Solid	5035	
890-1373-44	C-989	Total/NA	Solid	5035	
890-1373-45	C-990	Total/NA	Solid	5035	
890-1373-46	C-991	Total/NA	Solid	5035	
890-1373-47	C-992	Total/NA	Solid	5035	
890-1373-48	C-993	Total/NA	Solid	5035	
890-1373-49	C-994	Total/NA	Solid	5035	
890-1373-50	C-995	Total/NA	Solid	5035	
890-1373-51	C-996	Total/NA	Solid	5035	
890-1373-52	C-997	Total/NA	Solid	5035	
890-1373-53	C-998	Total/NA	Solid	5035	
890-1373-54	C-999	Total/NA	Solid	5035	
890-1373-55	C-1000	Total/NA	Solid	5035	
890-1373-56	C-1001	Total/NA	Solid	5035	
890-1373-57	C-1002	Total/NA	Solid	5035	
890-1373-58	C-1003	Total/NA	Solid	5035	
890-1373-59	C-1004	Total/NA	Solid	5035	
890-1373-60	C-1005	Total/NA	Solid	5035	
MB 880-9449/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9449/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9449/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1373-41 MS	C-986	Total/NA	Solid	5035	
890-1373-41 MSD	C-986	Total/NA	Solid	5035	

Prep Batch: 9452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9452/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 9487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-1	C-946	Total/NA	Solid	Total BTEX	
890-1373-2	C-947	Total/NA	Solid	Total BTEX	
890-1373-3	C-948	Total/NA	Solid	Total BTEX	
890-1373-4	C-949	Total/NA	Solid	Total BTEX	
890-1373-5	C-950	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-6	C-951	Total/NA	Solid	Total BTEX	
890-1373-7	C-952	Total/NA	Solid	Total BTEX	
890-1373-8	C-953	Total/NA	Solid	Total BTEX	
890-1373-9	C-954	Total/NA	Solid	Total BTEX	
890-1373-10	C-955	Total/NA	Solid	Total BTEX	
890-1373-11	C-956	Total/NA	Solid	Total BTEX	
890-1373-12	C-957	Total/NA	Solid	Total BTEX	
890-1373-13	C-958	Total/NA	Solid	Total BTEX	
890-1373-14	C-959	Total/NA	Solid	Total BTEX	
890-1373-15	C-960	Total/NA	Solid	Total BTEX	
890-1373-16	C-961	Total/NA	Solid	Total BTEX	
890-1373-17	C-962	Total/NA	Solid	Total BTEX	
890-1373-18	C-963	Total/NA	Solid	Total BTEX	

Analysis Batch: 9497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-61	C-1006	Total/NA	Solid	Total BTEX	
890-1373-62	C-1007	Total/NA	Solid	Total BTEX	
890-1373-63	C-1008	Total/NA	Solid	Total BTEX	

Analysis Batch: 9522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-41	C-986	Total/NA	Solid	8021B	9449
890-1373-42	C-987	Total/NA	Solid	8021B	9449
890-1373-43	C-988	Total/NA	Solid	8021B	9449
890-1373-44	C-989	Total/NA	Solid	8021B	9449
890-1373-45	C-990	Total/NA	Solid	8021B	9449
890-1373-46	C-991	Total/NA	Solid	8021B	9449
890-1373-47	C-992	Total/NA	Solid	8021B	9449
890-1373-48	C-993	Total/NA	Solid	8021B	9449
890-1373-49	C-994	Total/NA	Solid	8021B	9449
890-1373-50	C-995	Total/NA	Solid	8021B	9449
890-1373-51	C-996	Total/NA	Solid	8021B	9449
890-1373-52	C-997	Total/NA	Solid	8021B	9449
890-1373-53	C-998	Total/NA	Solid	8021B	9449
890-1373-54	C-999	Total/NA	Solid	8021B	9449
890-1373-55	C-1000	Total/NA	Solid	8021B	9449
890-1373-56	C-1001	Total/NA	Solid	8021B	9449
890-1373-57	C-1002	Total/NA	Solid	8021B	9449
890-1373-58	C-1003	Total/NA	Solid	8021B	9449
890-1373-59	C-1004	Total/NA	Solid	8021B	9449
890-1373-60	C-1005	Total/NA	Solid	8021B	9449
MB 880-9449/5-A	Method Blank	Total/NA	Solid	8021B	9449
MB 880-9452/5-A	Method Blank	Total/NA	Solid	8021B	9452
LCS 880-9449/1-A	Lab Control Sample	Total/NA	Solid	8021B	9449
LCSD 880-9449/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9449
890-1373-41 MS	C-986	Total/NA	Solid	8021B	9449
890-1373-41 MSD	C-986	Total/NA	Solid	8021B	9449

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

GC VOA

Analysis Batch: 9604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-21	C-967	Total/NA	Solid	8021B	9448
890-1373-22	C-968	Total/NA	Solid	8021B	9448
890-1373-23	C-969	Total/NA	Solid	8021B	9448
890-1373-24	C-970	Total/NA	Solid	8021B	9448
890-1373-25	C-971	Total/NA	Solid	8021B	9448
890-1373-26	C-972	Total/NA	Solid	8021B	9448
890-1373-27	C-973	Total/NA	Solid	8021B	9448
890-1373-28	C-974	Total/NA	Solid	8021B	9448
890-1373-29	C-975	Total/NA	Solid	8021B	9448
890-1373-30	C-906	Total/NA	Solid	8021B	9448
890-1373-31	C-976	Total/NA	Solid	8021B	9448
890-1373-32	C-977	Total/NA	Solid	8021B	9448
890-1373-33	C-978	Total/NA	Solid	8021B	9448
890-1373-34	C-979	Total/NA	Solid	8021B	9448
890-1373-35	C-980	Total/NA	Solid	8021B	9448
890-1373-36	C-981	Total/NA	Solid	8021B	9448
890-1373-37	C-982	Total/NA	Solid	8021B	9448
890-1373-38	C-983	Total/NA	Solid	8021B	9448
890-1373-39	C-984	Total/NA	Solid	8021B	9448
890-1373-40	C-985	Total/NA	Solid	8021B	9448
MB 880-9448/5-A	Method Blank	Total/NA	Solid	8021B	9448
LCS 880-9448/1-A	Lab Control Sample	Total/NA	Solid	8021B	9448
LCSD 880-9448/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9448
890-1373-21 MS	C-967	Total/NA	Solid	8021B	9448
890-1373-21 MSD	C-967	Total/NA	Solid	8021B	9448

Analysis Batch: 9796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-19	C-964	Total/NA	Solid	Total BTEX	
890-1373-20	C-965	Total/NA	Solid	Total BTEX	
890-1373-21	C-967	Total/NA	Solid	Total BTEX	
890-1373-22	C-968	Total/NA	Solid	Total BTEX	
890-1373-23	C-969	Total/NA	Solid	Total BTEX	
890-1373-24	C-970	Total/NA	Solid	Total BTEX	
890-1373-25	C-971	Total/NA	Solid	Total BTEX	
890-1373-26	C-972	Total/NA	Solid	Total BTEX	
890-1373-27	C-973	Total/NA	Solid	Total BTEX	
890-1373-28	C-974	Total/NA	Solid	Total BTEX	
890-1373-29	C-975	Total/NA	Solid	Total BTEX	
890-1373-30	C-906	Total/NA	Solid	Total BTEX	
890-1373-31	C-976	Total/NA	Solid	Total BTEX	
890-1373-32	C-977	Total/NA	Solid	Total BTEX	
890-1373-33	C-978	Total/NA	Solid	Total BTEX	
890-1373-34	C-979	Total/NA	Solid	Total BTEX	
890-1373-35	C-980	Total/NA	Solid	Total BTEX	
890-1373-36	C-981	Total/NA	Solid	Total BTEX	
890-1373-37	C-982	Total/NA	Solid	Total BTEX	
890-1373-38	C-983	Total/NA	Solid	Total BTEX	
890-1373-39	C-984	Total/NA	Solid	Total BTEX	
890-1373-40	C-985	Total/NA	Solid	Total BTEX	
890-1373-41	C-986	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-42	C-987	Total/NA	Solid	Total BTEX	
890-1373-43	C-988	Total/NA	Solid	Total BTEX	
890-1373-44	C-989	Total/NA	Solid	Total BTEX	
890-1373-45	C-990	Total/NA	Solid	Total BTEX	
890-1373-46	C-991	Total/NA	Solid	Total BTEX	
890-1373-47	C-992	Total/NA	Solid	Total BTEX	
890-1373-48	C-993	Total/NA	Solid	Total BTEX	
890-1373-49	C-994	Total/NA	Solid	Total BTEX	
890-1373-50	C-995	Total/NA	Solid	Total BTEX	
890-1373-51	C-996	Total/NA	Solid	Total BTEX	
890-1373-52	C-997	Total/NA	Solid	Total BTEX	
890-1373-53	C-998	Total/NA	Solid	Total BTEX	
890-1373-54	C-999	Total/NA	Solid	Total BTEX	
890-1373-55	C-1000	Total/NA	Solid	Total BTEX	
890-1373-56	C-1001	Total/NA	Solid	Total BTEX	
890-1373-57	C-1002	Total/NA	Solid	Total BTEX	
890-1373-58	C-1003	Total/NA	Solid	Total BTEX	
890-1373-59	C-1004	Total/NA	Solid	Total BTEX	
890-1373-60	C-1005	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 9299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-1	C-946	Total/NA	Solid	8015NM Prep	
890-1373-2	C-947	Total/NA	Solid	8015NM Prep	
890-1373-3	C-948	Total/NA	Solid	8015NM Prep	
890-1373-4	C-949	Total/NA	Solid	8015NM Prep	
890-1373-5	C-950	Total/NA	Solid	8015NM Prep	
890-1373-6	C-951	Total/NA	Solid	8015NM Prep	
890-1373-7	C-952	Total/NA	Solid	8015NM Prep	
890-1373-8	C-953	Total/NA	Solid	8015NM Prep	
890-1373-9	C-954	Total/NA	Solid	8015NM Prep	
890-1373-10	C-955	Total/NA	Solid	8015NM Prep	
890-1373-11	C-956	Total/NA	Solid	8015NM Prep	
890-1373-12	C-957	Total/NA	Solid	8015NM Prep	
890-1373-13	C-958	Total/NA	Solid	8015NM Prep	
890-1373-14	C-959	Total/NA	Solid	8015NM Prep	
890-1373-15	C-960	Total/NA	Solid	8015NM Prep	
890-1373-16	C-961	Total/NA	Solid	8015NM Prep	
890-1373-17	C-962	Total/NA	Solid	8015NM Prep	
890-1373-18	C-963	Total/NA	Solid	8015NM Prep	
890-1373-19	C-964	Total/NA	Solid	8015NM Prep	
890-1373-20	C-965	Total/NA	Solid	8015NM Prep	
MB 880-9299/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9299/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9299/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1373-1 MS	C-946	Total/NA	Solid	8015NM Prep	
890-1373-1 MSD	C-946	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 9300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-21	C-967	Total/NA	Solid	8015NM Prep	
890-1373-22	C-968	Total/NA	Solid	8015NM Prep	
890-1373-23	C-969	Total/NA	Solid	8015NM Prep	
890-1373-24	C-970	Total/NA	Solid	8015NM Prep	
890-1373-25	C-971	Total/NA	Solid	8015NM Prep	
890-1373-26	C-972	Total/NA	Solid	8015NM Prep	
890-1373-27	C-973	Total/NA	Solid	8015NM Prep	
890-1373-28	C-974	Total/NA	Solid	8015NM Prep	
890-1373-29	C-975	Total/NA	Solid	8015NM Prep	
890-1373-30	C-906	Total/NA	Solid	8015NM Prep	
890-1373-31	C-976	Total/NA	Solid	8015NM Prep	
890-1373-32	C-977	Total/NA	Solid	8015NM Prep	
890-1373-33	C-978	Total/NA	Solid	8015NM Prep	
890-1373-34	C-979	Total/NA	Solid	8015NM Prep	
890-1373-35	C-980	Total/NA	Solid	8015NM Prep	
890-1373-36	C-981	Total/NA	Solid	8015NM Prep	
890-1373-37	C-982	Total/NA	Solid	8015NM Prep	
890-1373-38	C-983	Total/NA	Solid	8015NM Prep	
890-1373-39	C-984	Total/NA	Solid	8015NM Prep	
890-1373-40	C-985	Total/NA	Solid	8015NM Prep	
MB 880-9300/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9300/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9300/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1373-21 MS	C-967	Total/NA	Solid	8015NM Prep	
890-1373-21 MSD	C-967	Total/NA	Solid	8015NM Prep	

Prep Batch: 9302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-41	C-986	Total/NA	Solid	8015NM Prep	
890-1373-42	C-987	Total/NA	Solid	8015NM Prep	
890-1373-43	C-988	Total/NA	Solid	8015NM Prep	
890-1373-44	C-989	Total/NA	Solid	8015NM Prep	
890-1373-45	C-990	Total/NA	Solid	8015NM Prep	
890-1373-46	C-991	Total/NA	Solid	8015NM Prep	
890-1373-47	C-992	Total/NA	Solid	8015NM Prep	
890-1373-48	C-993	Total/NA	Solid	8015NM Prep	
890-1373-49	C-994	Total/NA	Solid	8015NM Prep	
890-1373-50	C-995	Total/NA	Solid	8015NM Prep	
890-1373-51	C-996	Total/NA	Solid	8015NM Prep	
890-1373-52	C-997	Total/NA	Solid	8015NM Prep	
890-1373-53	C-998	Total/NA	Solid	8015NM Prep	
890-1373-54	C-999	Total/NA	Solid	8015NM Prep	
890-1373-55	C-1000	Total/NA	Solid	8015NM Prep	
890-1373-56	C-1001	Total/NA	Solid	8015NM Prep	
890-1373-57	C-1002	Total/NA	Solid	8015NM Prep	
890-1373-58	C-1003	Total/NA	Solid	8015NM Prep	
890-1373-59	C-1004	Total/NA	Solid	8015NM Prep	
890-1373-60	C-1005	Total/NA	Solid	8015NM Prep	
MB 880-9302/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9302/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9302/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 9302 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-41 MS	C-986	Total/NA	Solid	8015NM Prep	
890-1373-41 MSD	C-986	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-1	C-946	Total/NA	Solid	8015B NM	9299
890-1373-2	C-947	Total/NA	Solid	8015B NM	9299
890-1373-3	C-948	Total/NA	Solid	8015B NM	9299
890-1373-4	C-949	Total/NA	Solid	8015B NM	9299
890-1373-5	C-950	Total/NA	Solid	8015B NM	9299
890-1373-6	C-951	Total/NA	Solid	8015B NM	9299
890-1373-7	C-952	Total/NA	Solid	8015B NM	9299
890-1373-8	C-953	Total/NA	Solid	8015B NM	9299
890-1373-9	C-954	Total/NA	Solid	8015B NM	9299
890-1373-10	C-955	Total/NA	Solid	8015B NM	9299
890-1373-11	C-956	Total/NA	Solid	8015B NM	9299
890-1373-12	C-957	Total/NA	Solid	8015B NM	9299
890-1373-13	C-958	Total/NA	Solid	8015B NM	9299
890-1373-14	C-959	Total/NA	Solid	8015B NM	9299
890-1373-15	C-960	Total/NA	Solid	8015B NM	9299
890-1373-16	C-961	Total/NA	Solid	8015B NM	9299
890-1373-17	C-962	Total/NA	Solid	8015B NM	9299
890-1373-18	C-963	Total/NA	Solid	8015B NM	9299
890-1373-19	C-964	Total/NA	Solid	8015B NM	9299
890-1373-20	C-965	Total/NA	Solid	8015B NM	9299
890-1373-61	C-1006	Total/NA	Solid	8015B NM	9371
890-1373-62	C-1007	Total/NA	Solid	8015B NM	9371
890-1373-63	C-1008	Total/NA	Solid	8015B NM	9371
MB 880-9299/1-A	Method Blank	Total/NA	Solid	8015B NM	9299
MB 880-9371/1-A	Method Blank	Total/NA	Solid	8015B NM	9371
LCS 880-9299/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9299
LCS 880-9371/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9371
LCSD 880-9299/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9299
LCSD 880-9371/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9371
890-1370-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	9371
890-1370-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9371
890-1373-1 MS	C-946	Total/NA	Solid	8015B NM	9299
890-1373-1 MSD	C-946	Total/NA	Solid	8015B NM	9299

Analysis Batch: 9358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-21	C-967	Total/NA	Solid	8015B NM	9300
890-1373-22	C-968	Total/NA	Solid	8015B NM	9300
890-1373-23	C-969	Total/NA	Solid	8015B NM	9300
890-1373-24	C-970	Total/NA	Solid	8015B NM	9300
890-1373-25	C-971	Total/NA	Solid	8015B NM	9300
890-1373-26	C-972	Total/NA	Solid	8015B NM	9300
890-1373-27	C-973	Total/NA	Solid	8015B NM	9300
890-1373-28	C-974	Total/NA	Solid	8015B NM	9300
890-1373-29	C-975	Total/NA	Solid	8015B NM	9300
890-1373-30	C-906	Total/NA	Solid	8015B NM	9300

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 9358 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-31	C-976	Total/NA	Solid	8015B NM	9300
890-1373-32	C-977	Total/NA	Solid	8015B NM	9300
890-1373-33	C-978	Total/NA	Solid	8015B NM	9300
890-1373-34	C-979	Total/NA	Solid	8015B NM	9300
890-1373-35	C-980	Total/NA	Solid	8015B NM	9300
890-1373-36	C-981	Total/NA	Solid	8015B NM	9300
890-1373-37	C-982	Total/NA	Solid	8015B NM	9300
890-1373-38	C-983	Total/NA	Solid	8015B NM	9300
890-1373-39	C-984	Total/NA	Solid	8015B NM	9300
890-1373-40	C-985	Total/NA	Solid	8015B NM	9300
MB 880-9300/1-A	Method Blank	Total/NA	Solid	8015B NM	9300
LCS 880-9300/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9300
LCSD 880-9300/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9300
890-1373-21 MS	C-967	Total/NA	Solid	8015B NM	9300
890-1373-21 MSD	C-967	Total/NA	Solid	8015B NM	9300

Analysis Batch: 9360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-41	C-986	Total/NA	Solid	8015B NM	9302
890-1373-42	C-987	Total/NA	Solid	8015B NM	9302
890-1373-43	C-988	Total/NA	Solid	8015B NM	9302
890-1373-44	C-989	Total/NA	Solid	8015B NM	9302
890-1373-45	C-990	Total/NA	Solid	8015B NM	9302
890-1373-46	C-991	Total/NA	Solid	8015B NM	9302
890-1373-47	C-992	Total/NA	Solid	8015B NM	9302
890-1373-48	C-993	Total/NA	Solid	8015B NM	9302
890-1373-49	C-994	Total/NA	Solid	8015B NM	9302
890-1373-50	C-995	Total/NA	Solid	8015B NM	9302
890-1373-51	C-996	Total/NA	Solid	8015B NM	9302
890-1373-52	C-997	Total/NA	Solid	8015B NM	9302
890-1373-53	C-998	Total/NA	Solid	8015B NM	9302
890-1373-54	C-999	Total/NA	Solid	8015B NM	9302
890-1373-55	C-1000	Total/NA	Solid	8015B NM	9302
890-1373-56	C-1001	Total/NA	Solid	8015B NM	9302
890-1373-57	C-1002	Total/NA	Solid	8015B NM	9302
890-1373-58	C-1003	Total/NA	Solid	8015B NM	9302
890-1373-59	C-1004	Total/NA	Solid	8015B NM	9302
890-1373-60	C-1005	Total/NA	Solid	8015B NM	9302
MB 880-9302/1-A	Method Blank	Total/NA	Solid	8015B NM	9302
LCS 880-9302/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9302
LCSD 880-9302/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9302
890-1373-41 MS	C-986	Total/NA	Solid	8015B NM	9302
890-1373-41 MSD	C-986	Total/NA	Solid	8015B NM	9302

Prep Batch: 9371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-61	C-1006	Total/NA	Solid	8015NM Prep	
890-1373-62	C-1007	Total/NA	Solid	8015NM Prep	
890-1373-63	C-1008	Total/NA	Solid	8015NM Prep	
MB 880-9371/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9371/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 9371 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-9371/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1370-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1370-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-1	C-946	Total/NA	Solid	8015 NM	
890-1373-2	C-947	Total/NA	Solid	8015 NM	
890-1373-3	C-948	Total/NA	Solid	8015 NM	
890-1373-4	C-949	Total/NA	Solid	8015 NM	
890-1373-5	C-950	Total/NA	Solid	8015 NM	
890-1373-6	C-951	Total/NA	Solid	8015 NM	
890-1373-7	C-952	Total/NA	Solid	8015 NM	
890-1373-8	C-953	Total/NA	Solid	8015 NM	
890-1373-9	C-954	Total/NA	Solid	8015 NM	
890-1373-10	C-955	Total/NA	Solid	8015 NM	
890-1373-11	C-956	Total/NA	Solid	8015 NM	
890-1373-12	C-957	Total/NA	Solid	8015 NM	
890-1373-13	C-958	Total/NA	Solid	8015 NM	
890-1373-14	C-959	Total/NA	Solid	8015 NM	
890-1373-15	C-960	Total/NA	Solid	8015 NM	
890-1373-16	C-961	Total/NA	Solid	8015 NM	
890-1373-17	C-962	Total/NA	Solid	8015 NM	
890-1373-18	C-963	Total/NA	Solid	8015 NM	
890-1373-19	C-964	Total/NA	Solid	8015 NM	
890-1373-20	C-965	Total/NA	Solid	8015 NM	
890-1373-21	C-967	Total/NA	Solid	8015 NM	
890-1373-22	C-968	Total/NA	Solid	8015 NM	
890-1373-23	C-969	Total/NA	Solid	8015 NM	
890-1373-24	C-970	Total/NA	Solid	8015 NM	
890-1373-25	C-971	Total/NA	Solid	8015 NM	
890-1373-26	C-972	Total/NA	Solid	8015 NM	
890-1373-27	C-973	Total/NA	Solid	8015 NM	
890-1373-28	C-974	Total/NA	Solid	8015 NM	
890-1373-29	C-975	Total/NA	Solid	8015 NM	
890-1373-30	C-906	Total/NA	Solid	8015 NM	
890-1373-31	C-976	Total/NA	Solid	8015 NM	
890-1373-32	C-977	Total/NA	Solid	8015 NM	
890-1373-33	C-978	Total/NA	Solid	8015 NM	
890-1373-34	C-979	Total/NA	Solid	8015 NM	
890-1373-35	C-980	Total/NA	Solid	8015 NM	
890-1373-36	C-981	Total/NA	Solid	8015 NM	
890-1373-37	C-982	Total/NA	Solid	8015 NM	
890-1373-38	C-983	Total/NA	Solid	8015 NM	
890-1373-39	C-984	Total/NA	Solid	8015 NM	
890-1373-40	C-985	Total/NA	Solid	8015 NM	
890-1373-41	C-986	Total/NA	Solid	8015 NM	
890-1373-42	C-987	Total/NA	Solid	8015 NM	
890-1373-43	C-988	Total/NA	Solid	8015 NM	
890-1373-44	C-989	Total/NA	Solid	8015 NM	
890-1373-45	C-990	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 9387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-46	C-991	Total/NA	Solid	8015 NM	
890-1373-47	C-992	Total/NA	Solid	8015 NM	
890-1373-48	C-993	Total/NA	Solid	8015 NM	
890-1373-49	C-994	Total/NA	Solid	8015 NM	
890-1373-50	C-995	Total/NA	Solid	8015 NM	
890-1373-51	C-996	Total/NA	Solid	8015 NM	
890-1373-52	C-997	Total/NA	Solid	8015 NM	
890-1373-53	C-998	Total/NA	Solid	8015 NM	
890-1373-54	C-999	Total/NA	Solid	8015 NM	
890-1373-55	C-1000	Total/NA	Solid	8015 NM	
890-1373-56	C-1001	Total/NA	Solid	8015 NM	
890-1373-57	C-1002	Total/NA	Solid	8015 NM	
890-1373-58	C-1003	Total/NA	Solid	8015 NM	
890-1373-59	C-1004	Total/NA	Solid	8015 NM	
890-1373-60	C-1005	Total/NA	Solid	8015 NM	
890-1373-61	C-1006	Total/NA	Solid	8015 NM	
890-1373-62	C-1007	Total/NA	Solid	8015 NM	
890-1373-63	C-1008	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 9208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-26	C-972	Soluble	Solid	DI Leach	
890-1373-27	C-973	Soluble	Solid	DI Leach	
890-1373-28	C-974	Soluble	Solid	DI Leach	
890-1373-29	C-975	Soluble	Solid	DI Leach	
890-1373-30	C-906	Soluble	Solid	DI Leach	
890-1373-31	C-976	Soluble	Solid	DI Leach	
890-1373-32	C-977	Soluble	Solid	DI Leach	
890-1373-33	C-978	Soluble	Solid	DI Leach	
890-1373-34	C-979	Soluble	Solid	DI Leach	
890-1373-35	C-980	Soluble	Solid	DI Leach	
890-1373-36	C-981	Soluble	Solid	DI Leach	
890-1373-37	C-982	Soluble	Solid	DI Leach	
890-1373-38	C-983	Soluble	Solid	DI Leach	
890-1373-39	C-984	Soluble	Solid	DI Leach	
890-1373-40	C-985	Soluble	Solid	DI Leach	
890-1373-41	C-986	Soluble	Solid	DI Leach	
890-1373-42	C-987	Soluble	Solid	DI Leach	
890-1373-43	C-988	Soluble	Solid	DI Leach	
890-1373-44	C-989	Soluble	Solid	DI Leach	
890-1373-45	C-990	Soluble	Solid	DI Leach	
MB 880-9208/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9208/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9208/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1373-26 MS	C-972	Soluble	Solid	DI Leach	
890-1373-26 MSD	C-972	Soluble	Solid	DI Leach	
890-1373-36 MS	C-981	Soluble	Solid	DI Leach	
890-1373-36 MSD	C-981	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 9209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-46	C-991	Soluble	Solid	DI Leach	
890-1373-47	C-992	Soluble	Solid	DI Leach	
890-1373-48	C-993	Soluble	Solid	DI Leach	
890-1373-49	C-994	Soluble	Solid	DI Leach	
890-1373-50	C-995	Soluble	Solid	DI Leach	
890-1373-51	C-996	Soluble	Solid	DI Leach	
890-1373-52	C-997	Soluble	Solid	DI Leach	
890-1373-53	C-998	Soluble	Solid	DI Leach	
890-1373-54	C-999	Soluble	Solid	DI Leach	
890-1373-55	C-1000	Soluble	Solid	DI Leach	
890-1373-56	C-1001	Soluble	Solid	DI Leach	
890-1373-57	C-1002	Soluble	Solid	DI Leach	
890-1373-58	C-1003	Soluble	Solid	DI Leach	
890-1373-59	C-1004	Soluble	Solid	DI Leach	
890-1373-60	C-1005	Soluble	Solid	DI Leach	
890-1373-61	C-1006	Soluble	Solid	DI Leach	
890-1373-62	C-1007	Soluble	Solid	DI Leach	
890-1373-63	C-1008	Soluble	Solid	DI Leach	
MB 880-9209/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9209/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9209/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1373-46 MS	C-991	Soluble	Solid	DI Leach	
890-1373-46 MSD	C-991	Soluble	Solid	DI Leach	
890-1373-56 MS	C-1001	Soluble	Solid	DI Leach	
890-1373-56 MSD	C-1001	Soluble	Solid	DI Leach	

Analysis Batch: 9381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-26	C-972	Soluble	Solid	300.0	9208
890-1373-27	C-973	Soluble	Solid	300.0	9208
890-1373-28	C-974	Soluble	Solid	300.0	9208
890-1373-29	C-975	Soluble	Solid	300.0	9208
890-1373-30	C-906	Soluble	Solid	300.0	9208
890-1373-31	C-976	Soluble	Solid	300.0	9208
890-1373-32	C-977	Soluble	Solid	300.0	9208
890-1373-33	C-978	Soluble	Solid	300.0	9208
890-1373-34	C-979	Soluble	Solid	300.0	9208
890-1373-35	C-980	Soluble	Solid	300.0	9208
890-1373-36	C-981	Soluble	Solid	300.0	9208
890-1373-37	C-982	Soluble	Solid	300.0	9208
890-1373-38	C-983	Soluble	Solid	300.0	9208
890-1373-39	C-984	Soluble	Solid	300.0	9208
890-1373-40	C-985	Soluble	Solid	300.0	9208
890-1373-41	C-986	Soluble	Solid	300.0	9208
890-1373-42	C-987	Soluble	Solid	300.0	9208
890-1373-43	C-988	Soluble	Solid	300.0	9208
890-1373-44	C-989	Soluble	Solid	300.0	9208
890-1373-45	C-990	Soluble	Solid	300.0	9208
MB 880-9208/1-A	Method Blank	Soluble	Solid	300.0	9208
LCS 880-9208/2-A	Lab Control Sample	Soluble	Solid	300.0	9208
LCSD 880-9208/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9208

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 9381 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-26 MS	C-972	Soluble	Solid	300.0	9208
890-1373-26 MSD	C-972	Soluble	Solid	300.0	9208
890-1373-36 MS	C-981	Soluble	Solid	300.0	9208
890-1373-36 MSD	C-981	Soluble	Solid	300.0	9208

Analysis Batch: 9384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-46	C-991	Soluble	Solid	300.0	9209
890-1373-47	C-992	Soluble	Solid	300.0	9209
890-1373-48	C-993	Soluble	Solid	300.0	9209
890-1373-49	C-994	Soluble	Solid	300.0	9209
890-1373-50	C-995	Soluble	Solid	300.0	9209
890-1373-51	C-996	Soluble	Solid	300.0	9209
890-1373-52	C-997	Soluble	Solid	300.0	9209
890-1373-53	C-998	Soluble	Solid	300.0	9209
890-1373-54	C-999	Soluble	Solid	300.0	9209
890-1373-55	C-1000	Soluble	Solid	300.0	9209
890-1373-56	C-1001	Soluble	Solid	300.0	9209
890-1373-57	C-1002	Soluble	Solid	300.0	9209
890-1373-58	C-1003	Soluble	Solid	300.0	9209
890-1373-59	C-1004	Soluble	Solid	300.0	9209
890-1373-60	C-1005	Soluble	Solid	300.0	9209
890-1373-61	C-1006	Soluble	Solid	300.0	9209
890-1373-62	C-1007	Soluble	Solid	300.0	9209
890-1373-63	C-1008	Soluble	Solid	300.0	9209
MB 880-9209/1-A	Method Blank	Soluble	Solid	300.0	9209
LCS 880-9209/2-A	Lab Control Sample	Soluble	Solid	300.0	9209
LCSD 880-9209/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9209
890-1373-46 MS	C-991	Soluble	Solid	300.0	9209
890-1373-46 MSD	C-991	Soluble	Solid	300.0	9209
890-1373-56 MS	C-1001	Soluble	Solid	300.0	9209
890-1373-56 MSD	C-1001	Soluble	Solid	300.0	9209

Leach Batch: 9409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-1	C-946	Soluble	Solid	DI Leach	
890-1373-2	C-947	Soluble	Solid	DI Leach	
890-1373-3	C-948	Soluble	Solid	DI Leach	
890-1373-4	C-949	Soluble	Solid	DI Leach	
MB 880-9409/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9409/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9409/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1371-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1371-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 9410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-5	C-950	Soluble	Solid	DI Leach	
890-1373-6	C-951	Soluble	Solid	DI Leach	
890-1373-7	C-952	Soluble	Solid	DI Leach	
890-1373-8	C-953	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 9410 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-9	C-954	Soluble	Solid	DI Leach	
890-1373-10	C-955	Soluble	Solid	DI Leach	
890-1373-11	C-956	Soluble	Solid	DI Leach	
890-1373-12	C-957	Soluble	Solid	DI Leach	
890-1373-13	C-958	Soluble	Solid	DI Leach	
890-1373-14	C-959	Soluble	Solid	DI Leach	
890-1373-15	C-960	Soluble	Solid	DI Leach	
890-1373-16	C-961	Soluble	Solid	DI Leach	
890-1373-17	C-962	Soluble	Solid	DI Leach	
890-1373-18	C-963	Soluble	Solid	DI Leach	
890-1373-19	C-964	Soluble	Solid	DI Leach	
890-1373-20	C-965	Soluble	Solid	DI Leach	
890-1373-21	C-967	Soluble	Solid	DI Leach	
890-1373-22	C-968	Soluble	Solid	DI Leach	
890-1373-23	C-969	Soluble	Solid	DI Leach	
890-1373-24	C-970	Soluble	Solid	DI Leach	
MB 880-9410/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9410/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9410/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1373-5 MS	C-950	Soluble	Solid	DI Leach	
890-1373-5 MSD	C-950	Soluble	Solid	DI Leach	
890-1373-15 MS	C-960	Soluble	Solid	DI Leach	
890-1373-15 MSD	C-960	Soluble	Solid	DI Leach	

Leach Batch: 9411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-25	C-971	Soluble	Solid	DI Leach	
MB 880-9411/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9411/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9411/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1383-A-9-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1383-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 9417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9417/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9417/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9417/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7163-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7163-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 9526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-5	C-950	Soluble	Solid	300.0	9410
890-1373-6	C-951	Soluble	Solid	300.0	9410
890-1373-7	C-952	Soluble	Solid	300.0	9410
890-1373-8	C-953	Soluble	Solid	300.0	9410
890-1373-9	C-954	Soluble	Solid	300.0	9410
890-1373-10	C-955	Soluble	Solid	300.0	9410
890-1373-11	C-956	Soluble	Solid	300.0	9410
890-1373-12	C-957	Soluble	Solid	300.0	9410

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 9526 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-13	C-958	Soluble	Solid	300.0	9410
890-1373-14	C-959	Soluble	Solid	300.0	9410
890-1373-15	C-960	Soluble	Solid	300.0	9410
890-1373-16	C-961	Soluble	Solid	300.0	9410
890-1373-17	C-962	Soluble	Solid	300.0	9410
890-1373-18	C-963	Soluble	Solid	300.0	9410
890-1373-19	C-964	Soluble	Solid	300.0	9410
890-1373-20	C-965	Soluble	Solid	300.0	9410
890-1373-21	C-967	Soluble	Solid	300.0	9410
890-1373-22	C-968	Soluble	Solid	300.0	9410
890-1373-23	C-969	Soluble	Solid	300.0	9410
890-1373-24	C-970	Soluble	Solid	300.0	9410
MB 880-9410/1-A	Method Blank	Soluble	Solid	300.0	9410
LCS 880-9410/2-A	Lab Control Sample	Soluble	Solid	300.0	9410
LCSD 880-9410/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9410
890-1373-5 MS	C-950	Soluble	Solid	300.0	9410
890-1373-5 MSD	C-950	Soluble	Solid	300.0	9410
890-1373-15 MS	C-960	Soluble	Solid	300.0	9410
890-1373-15 MSD	C-960	Soluble	Solid	300.0	9410

Analysis Batch: 9528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-1	C-946	Soluble	Solid	300.0	9409
890-1373-2	C-947	Soluble	Solid	300.0	9409
890-1373-3	C-948	Soluble	Solid	300.0	9409
890-1373-4	C-949	Soluble	Solid	300.0	9409
MB 880-9409/1-A	Method Blank	Soluble	Solid	300.0	9409
LCS 880-9409/2-A	Lab Control Sample	Soluble	Solid	300.0	9409
LCSD 880-9409/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9409
890-1371-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	9409
890-1371-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9409

Analysis Batch: 9545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1373-25	C-971	Soluble	Solid	300.0	9411
MB 880-9411/1-A	Method Blank	Soluble	Solid	300.0	9411
LCS 880-9411/2-A	Lab Control Sample	Soluble	Solid	300.0	9411
LCSD 880-9411/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9411
890-1383-A-9-B MS	Matrix Spike	Soluble	Solid	300.0	9411
890-1383-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9411

Analysis Batch: 9634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9417/1-A	Method Blank	Soluble	Solid	300.0	9417
LCS 880-9417/2-A	Lab Control Sample	Soluble	Solid	300.0	9417
LCSD 880-9417/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9417
880-7163-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	9417
880-7163-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9417

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-946

Lab Sample ID: 890-1373-1

Date Collected: 10/06/21 07:40

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 02:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 12:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9409	10/13/21 18:21	CA	XEN MID
Soluble	Analysis	300.0		1			9528	10/15/21 13:10	CH	XEN MID

Client Sample ID: C-947

Lab Sample ID: 890-1373-2

Date Collected: 10/06/21 07:41

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 03:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 13:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9409	10/13/21 18:21	CA	XEN MID
Soluble	Analysis	300.0		1			9528	10/15/21 13:15	CH	XEN MID

Client Sample ID: C-948

Lab Sample ID: 890-1373-3

Date Collected: 10/06/21 07:42

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 03:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 13:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9409	10/13/21 18:21	CA	XEN MID
Soluble	Analysis	300.0		1			9528	10/15/21 13:21	CH	XEN MID

Client Sample ID: C-949

Lab Sample ID: 890-1373-4

Date Collected: 10/06/21 07:43

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 04:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-949

Date Collected: 10/06/21 07:43

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 14:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9409	10/13/21 18:21	CA	XEN MID
Soluble	Analysis	300.0		1			9528	10/15/21 13:26	CH	XEN MID

Client Sample ID: C-950

Date Collected: 10/06/21 07:44

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 04:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 14:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 09:42	CH	XEN MID

Client Sample ID: C-951

Date Collected: 10/06/21 07:45

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 05:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 14:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 10:03	CH	XEN MID

Client Sample ID: C-952

Date Collected: 10/06/21 07:46

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 05:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 15:18	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-952

Date Collected: 10/06/21 07:46

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 10:10	CH	XEN MID

Client Sample ID: C-953

Date Collected: 10/06/21 07:47

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 05:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 15:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 10:18	CH	XEN MID

Client Sample ID: C-954

Date Collected: 10/06/21 07:48

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 06:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 16:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 10:25	CH	XEN MID

Client Sample ID: C-955

Date Collected: 10/06/21 07:49

Date Received: 10/06/21 16:04

Lab Sample ID: 890-1373-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 06:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 16:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 10:46	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-956

Lab Sample ID: 890-1373-11

Date Collected: 10/06/21 07:50

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 08:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 17:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 10:53	CH	XEN MID

Client Sample ID: C-957

Lab Sample ID: 890-1373-12

Date Collected: 10/06/21 07:51

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 09:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 17:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 11:01	CH	XEN MID

Client Sample ID: C-958

Lab Sample ID: 890-1373-13

Date Collected: 10/06/21 07:52

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 09:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 17:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 11:08	CH	XEN MID

Client Sample ID: C-959

Lab Sample ID: 890-1373-14

Date Collected: 10/06/21 07:53

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 09:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-959

Lab Sample ID: 890-1373-14

Date Collected: 10/06/21 07:53

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 11:15	CH	XEN MID

Client Sample ID: C-960

Lab Sample ID: 890-1373-15

Date Collected: 10/06/21 07:54

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 10:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 11:22	CH	XEN MID

Client Sample ID: C-961

Lab Sample ID: 890-1373-16

Date Collected: 10/06/21 07:55

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 10:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 18:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 11:44	CH	XEN MID

Client Sample ID: C-962

Lab Sample ID: 890-1373-17

Date Collected: 10/06/21 07:56

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 11:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 19:11	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-962

Lab Sample ID: 890-1373-17

Date Collected: 10/06/21 07:56

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 11:51	CH	XEN MID

Client Sample ID: C-963

Lab Sample ID: 890-1373-18

Date Collected: 10/06/21 07:57

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 11:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9487	10/15/21 12:30	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 19:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 12:12	CH	XEN MID

Client Sample ID: C-964

Lab Sample ID: 890-1373-19

Date Collected: 10/06/21 07:58

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 12:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 19:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 12:19	CH	XEN MID

Client Sample ID: C-965

Lab Sample ID: 890-1373-20

Date Collected: 10/06/21 07:59

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9205	10/11/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9436	10/15/21 12:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9299	10/12/21 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 20:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 12:27	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-967

Lab Sample ID: 890-1373-21

Date Collected: 10/06/21 08:01

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 16:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 11:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 12:34	CH	XEN MID

Client Sample ID: C-968

Lab Sample ID: 890-1373-22

Date Collected: 10/06/21 10:08

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 16:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 12:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 12:41	CH	XEN MID

Client Sample ID: C-969

Lab Sample ID: 890-1373-23

Date Collected: 10/06/21 10:09

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 17:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 12:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 12:48	CH	XEN MID

Client Sample ID: C-970

Lab Sample ID: 890-1373-24

Date Collected: 10/06/21 10:10

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 17:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-970

Lab Sample ID: 890-1373-24

Date Collected: 10/06/21 10:10

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 13:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9410	10/13/21 18:32	CA	XEN MID
Soluble	Analysis	300.0		1			9526	10/15/21 12:55	CH	XEN MID

Client Sample ID: C-971

Lab Sample ID: 890-1373-25

Date Collected: 10/06/21 10:11

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 17:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 13:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9411	10/13/21 18:36	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 19:30	CH	XEN MID

Client Sample ID: C-972

Lab Sample ID: 890-1373-26

Date Collected: 10/06/21 10:12

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 18:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 13:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 04:27	CH	XEN MID

Client Sample ID: C-973

Lab Sample ID: 890-1373-27

Date Collected: 10/06/21 10:13

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 18:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 14:17	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-973

Lab Sample ID: 890-1373-27

Date Collected: 10/06/21 10:13

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 04:48	CH	XEN MID

Client Sample ID: C-974

Lab Sample ID: 890-1373-28

Date Collected: 10/06/21 10:14

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 19:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 14:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 04:56	CH	XEN MID

Client Sample ID: C-975

Lab Sample ID: 890-1373-29

Date Collected: 10/06/21 10:15

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 19:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 05:03	CH	XEN MID

Client Sample ID: C-906

Lab Sample ID: 890-1373-30

Date Collected: 10/06/21 08:00

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 19:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 15:22	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 05:10	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-976

Lab Sample ID: 890-1373-31

Date Collected: 10/06/21 13:06

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 21:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 16:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 05:31	CH	XEN MID

Client Sample ID: C-977

Lab Sample ID: 890-1373-32

Date Collected: 10/06/21 13:07

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 21:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 16:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 05:38	CH	XEN MID

Client Sample ID: C-978

Lab Sample ID: 890-1373-33

Date Collected: 10/06/21 13:08

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 21:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 16:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 05:46	CH	XEN MID

Client Sample ID: C-979

Lab Sample ID: 890-1373-34

Date Collected: 10/06/21 13:09

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 22:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-979

Lab Sample ID: 890-1373-34

Date Collected: 10/06/21 13:09

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 17:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 05:53	CH	XEN MID

Client Sample ID: C-980

Lab Sample ID: 890-1373-35

Date Collected: 10/06/21 13:10

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 22:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 17:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 06:00	CH	XEN MID

Client Sample ID: C-981

Lab Sample ID: 890-1373-36

Date Collected: 10/06/21 13:11

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 22:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 17:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 06:07	CH	XEN MID

Client Sample ID: C-982

Lab Sample ID: 890-1373-37

Date Collected: 10/06/21 13:12

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 23:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 18:14	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-982

Lab Sample ID: 890-1373-37

Date Collected: 10/06/21 13:12

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 06:29	CH	XEN MID

Client Sample ID: C-983

Lab Sample ID: 890-1373-38

Date Collected: 10/06/21 13:13

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 23:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 06:36	CH	XEN MID

Client Sample ID: C-984

Lab Sample ID: 890-1373-39

Date Collected: 10/06/21 13:14

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/17/21 23:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 06:57	CH	XEN MID

Client Sample ID: C-985

Lab Sample ID: 890-1373-40

Date Collected: 10/06/21 13:15

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9448	10/14/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/18/21 00:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9300	10/12/21 11:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9358	10/13/21 19:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		5			9381	10/14/21 07:04	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-986

Lab Sample ID: 890-1373-41

Date Collected: 10/06/21 13:16

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 01:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 11:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 07:11	CH	XEN MID

Client Sample ID: C-987

Lab Sample ID: 890-1373-42

Date Collected: 10/06/21 13:17

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 01:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 12:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 07:19	CH	XEN MID

Client Sample ID: C-988

Lab Sample ID: 890-1373-43

Date Collected: 10/06/21 13:18

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 02:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 12:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 07:26	CH	XEN MID

Client Sample ID: C-989

Lab Sample ID: 890-1373-44

Date Collected: 10/06/21 13:19

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 02:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-989

Lab Sample ID: 890-1373-44

Date Collected: 10/06/21 13:19

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 13:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 07:33	CH	XEN MID

Client Sample ID: C-990

Lab Sample ID: 890-1373-45

Date Collected: 10/06/21 13:20

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 02:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 13:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9208	10/11/21 12:14	CH	XEN MID
Soluble	Analysis	300.0		1			9381	10/14/21 07:40	CH	XEN MID

Client Sample ID: C-991

Lab Sample ID: 890-1373-46

Date Collected: 10/06/21 13:21

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 03:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 13:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 02:15	CH	XEN MID

Client Sample ID: C-992

Lab Sample ID: 890-1373-47

Date Collected: 10/06/21 13:22

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 03:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 14:17	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-992

Lab Sample ID: 890-1373-47

Date Collected: 10/06/21 13:22

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 02:32	CH	XEN MID

Client Sample ID: C-993

Lab Sample ID: 890-1373-48

Date Collected: 10/06/21 13:23

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 03:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 14:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 02:38	CH	XEN MID

Client Sample ID: C-994

Lab Sample ID: 890-1373-49

Date Collected: 10/06/21 13:24

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 04:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 14:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 02:44	CH	XEN MID

Client Sample ID: C-995

Lab Sample ID: 890-1373-50

Date Collected: 10/06/21 13:25

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 04:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 15:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 02:49	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-996

Lab Sample ID: 890-1373-51

Date Collected: 10/06/21 13:26

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 06:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 16:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 03:06	CH	XEN MID

Client Sample ID: C-997

Lab Sample ID: 890-1373-52

Date Collected: 10/06/21 13:27

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 06:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 16:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 03:12	CH	XEN MID

Client Sample ID: C-998

Lab Sample ID: 890-1373-53

Date Collected: 10/06/21 13:28

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 07:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 16:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 03:17	CH	XEN MID

Client Sample ID: C-999

Lab Sample ID: 890-1373-54

Date Collected: 10/06/21 13:29

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 07:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-999

Lab Sample ID: 890-1373-54

Date Collected: 10/06/21 13:29

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 17:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 03:23	CH	XEN MID

Client Sample ID: C-1000

Lab Sample ID: 890-1373-55

Date Collected: 10/06/21 13:30

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 07:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 17:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 03:28	CH	XEN MID

Client Sample ID: C-1001

Lab Sample ID: 890-1373-56

Date Collected: 10/06/21 13:31

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 08:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 17:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 03:34	CH	XEN MID

Client Sample ID: C-1002

Lab Sample ID: 890-1373-57

Date Collected: 10/06/21 13:32

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 08:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 18:14	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-1002

Lab Sample ID: 890-1373-57

Date Collected: 10/06/21 13:32

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 03:51	CH	XEN MID

Client Sample ID: C-1003

Lab Sample ID: 890-1373-58

Date Collected: 10/06/21 13:33

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 08:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 03:57	CH	XEN MID

Client Sample ID: C-1004

Lab Sample ID: 890-1373-59

Date Collected: 10/06/21 13:34

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 09:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 04:13	CH	XEN MID

Client Sample ID: C-1005

Lab Sample ID: 890-1373-60

Date Collected: 10/06/21 13:35

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	9449	10/14/21 10:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 09:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9302	10/12/21 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9360	10/13/21 19:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 04:19	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Client Sample ID: C-1006

Lab Sample ID: 890-1373-61

Date Collected: 10/06/21 13:36

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 07:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9371	10/13/21 11:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 23:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 04:25	CH	XEN MID

Client Sample ID: C-1007

Lab Sample ID: 890-1373-62

Date Collected: 10/06/21 13:37

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 08:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9371	10/13/21 11:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 23:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			9384	10/14/21 04:30	CH	XEN MID

Client Sample ID: C-1008

Lab Sample ID: 890-1373-63

Date Collected: 10/06/21 13:38

Matrix: Solid

Date Received: 10/06/21 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 08:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9371	10/13/21 11:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/14/21 00:16	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9209	10/11/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		5			9384	10/14/21 04:36	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

- 1
- 2
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- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1373-1	C-946	Solid	10/06/21 07:40	10/06/21 16:04
890-1373-2	C-947	Solid	10/06/21 07:41	10/06/21 16:04
890-1373-3	C-948	Solid	10/06/21 07:42	10/06/21 16:04
890-1373-4	C-949	Solid	10/06/21 07:43	10/06/21 16:04
890-1373-5	C-950	Solid	10/06/21 07:44	10/06/21 16:04
890-1373-6	C-951	Solid	10/06/21 07:45	10/06/21 16:04
890-1373-7	C-952	Solid	10/06/21 07:46	10/06/21 16:04
890-1373-8	C-953	Solid	10/06/21 07:47	10/06/21 16:04
890-1373-9	C-954	Solid	10/06/21 07:48	10/06/21 16:04
890-1373-10	C-955	Solid	10/06/21 07:49	10/06/21 16:04
890-1373-11	C-956	Solid	10/06/21 07:50	10/06/21 16:04
890-1373-12	C-957	Solid	10/06/21 07:51	10/06/21 16:04
890-1373-13	C-958	Solid	10/06/21 07:52	10/06/21 16:04
890-1373-14	C-959	Solid	10/06/21 07:53	10/06/21 16:04
890-1373-15	C-960	Solid	10/06/21 07:54	10/06/21 16:04
890-1373-16	C-961	Solid	10/06/21 07:55	10/06/21 16:04
890-1373-17	C-962	Solid	10/06/21 07:56	10/06/21 16:04
890-1373-18	C-963	Solid	10/06/21 07:57	10/06/21 16:04
890-1373-19	C-964	Solid	10/06/21 07:58	10/06/21 16:04
890-1373-20	C-965	Solid	10/06/21 07:59	10/06/21 16:04
890-1373-21	C-967	Solid	10/06/21 08:01	10/06/21 16:04
890-1373-22	C-968	Solid	10/06/21 10:08	10/06/21 16:04
890-1373-23	C-969	Solid	10/06/21 10:09	10/06/21 16:04
890-1373-24	C-970	Solid	10/06/21 10:10	10/06/21 16:04
890-1373-25	C-971	Solid	10/06/21 10:11	10/06/21 16:04
890-1373-26	C-972	Solid	10/06/21 10:12	10/06/21 16:04
890-1373-27	C-973	Solid	10/06/21 10:13	10/06/21 16:04
890-1373-28	C-974	Solid	10/06/21 10:14	10/06/21 16:04
890-1373-29	C-975	Solid	10/06/21 10:15	10/06/21 16:04
890-1373-30	C-906	Solid	10/06/21 08:00	10/06/21 16:04
890-1373-31	C-976	Solid	10/06/21 13:06	10/06/21 16:04
890-1373-32	C-977	Solid	10/06/21 13:07	10/06/21 16:04
890-1373-33	C-978	Solid	10/06/21 13:08	10/06/21 16:04
890-1373-34	C-979	Solid	10/06/21 13:09	10/06/21 16:04
890-1373-35	C-980	Solid	10/06/21 13:10	10/06/21 16:04
890-1373-36	C-981	Solid	10/06/21 13:11	10/06/21 16:04
890-1373-37	C-982	Solid	10/06/21 13:12	10/06/21 16:04
890-1373-38	C-983	Solid	10/06/21 13:13	10/06/21 16:04
890-1373-39	C-984	Solid	10/06/21 13:14	10/06/21 16:04
890-1373-40	C-985	Solid	10/06/21 13:15	10/06/21 16:04
890-1373-41	C-986	Solid	10/06/21 13:16	10/06/21 16:04
890-1373-42	C-987	Solid	10/06/21 13:17	10/06/21 16:04
890-1373-43	C-988	Solid	10/06/21 13:18	10/06/21 16:04
890-1373-44	C-989	Solid	10/06/21 13:19	10/06/21 16:04
890-1373-45	C-990	Solid	10/06/21 13:20	10/06/21 16:04
890-1373-46	C-991	Solid	10/06/21 13:21	10/06/21 16:04
890-1373-47	C-992	Solid	10/06/21 13:22	10/06/21 16:04
890-1373-48	C-993	Solid	10/06/21 13:23	10/06/21 16:04
890-1373-49	C-994	Solid	10/06/21 13:24	10/06/21 16:04
890-1373-50	C-995	Solid	10/06/21 13:25	10/06/21 16:04
890-1373-51	C-996	Solid	10/06/21 13:26	10/06/21 16:04
890-1373-52	C-997	Solid	10/06/21 13:27	10/06/21 16:04
890-1373-53	C-998	Solid	10/06/21 13:28	10/06/21 16:04
890-1373-54	C-999	Solid	10/06/21 13:29	10/06/21 16:04
890-1373-55	C-1000	Solid	10/06/21 13:30	10/06/21 16:04

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1373-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1373-56	C-1001	Solid	10/06/21 13:31	10/06/21 16:04
890-1373-57	C-1002	Solid	10/06/21 13:32	10/06/21 16:04
890-1373-58	C-1003	Solid	10/06/21 13:33	10/06/21 16:04
890-1373-59	C-1004	Solid	10/06/21 13:34	10/06/21 16:04
890-1373-60	C-1005	Solid	10/06/21 13:35	10/06/21 16:04
890-1373-61	C-1006	Solid	10/06/21 13:36	10/06/21 16:04
890-1373-62	C-1007	Solid	10/06/21 13:37	10/06/21 16:04
890-1373-63	C-1008	Solid	10/06/21 13:38	10/06/21 16:04

Varson & Associates, Inc.
Environmental Consultants



890-1373 Chain of Custody

CHAIN-OF-CUSTODY

No. 2120

DATE: 10/6/2021 PAGE 1 OF 5

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Palmview AstLAI PROJECT #: 21-0105-02 COLLECTOR: DSG/TP

Data Reported to

TRRP report? ☐ Yes ☒ No
S=SOIL W=WATER P=PAINT
A=AIR SL=SLUDGE OT=OTHER

TIME ZONE
Time zone/State

MST/MT

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTX/MTBE

TRPH-418.1

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PCBS

TCLP - METALS (RCRA)

TCLP - PEST

TCLP - HERB

TCLP - SEMI-VOC

OTHER LIST

LEAD - TOTAL

DW 2008

FLASHPOINT

TDS

TOX

TSS

% MOISTURE

CYANIDE

HEXAVALENT CHROMIUM

PECHLORATE

EXPLOSIVES

CHLORIDE

ANIONS

ALKALINITY

FIELD NOTES

TOTAL

15

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY: 3.6/3.4 TMM007

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY: 3.6/3.4 TMM007

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY: 3.6/3.4 TMM007

LABORATORY

X4400

1
2
3
4
5
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10
11
12
13
14

No. 2121

CHAIN-OF-CUSTODY

Marson & Associates, Inc.
Environmental Consultants

507 N. Marlenfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 10/6/2021 PAGE 2 OF 5
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmer A5T
LAI PROJECT #: 21-0105-02 COLLECTOR: ASG/TP

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State

MST/AM

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄

NaOH

ICE

UNPRESERVED

ANALYSES

BTEX

TPH 418

TPH 1005

TPH 1006

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PESTICIDES

TCLP - METALS

TCLP - METALS (RCRA)

TCLP - METALS (RCRA)

LEAD - TOTAL

TOX

TSS

% MOISTURE

HEXAVALENT CHROMIUM

PECHLORATE

EXPLOSIVES

CHLORIDE

ANIONS

ALKALINITY

FIELD NOTES

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
C-961		10/6/21	0755	S	1								
C-962			0756										
C-963			0757										
C-964			0758										
C-965			0759										
C-967			0801										
C-968			1008										
C-969			1009										
C-970			1010										
C-971			1011										
C-972			1012										
C-973			1013										
C-974			1014										
C-975			1015										
C-966			0800										

TOTAL 15

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

LABORATORY Xenc0

TURN AROUND TIME

NORMAL ☒

1 DAY ☐

2 DAY ☐

OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP

FORM #

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

HAND DELIVERED

CHAIN-OF-CUSTODY

[illegible]

CHAIN-OF-CUSTODY

10/18/2021

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1373-1

SDG Number: 21-0105-02

Login Number: 1373**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1373-1

SDG Number: 21-0105-02

Login Number: 1373**List Number: 2****Creator: Lowe, Katie****List Source: Eurofins Xenco, Midland****List Creation: 10/08/21 11:50 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1380-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST
Revision: 1

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
2/2/2022 9:18:12 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1380-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Job ID: 890-1380-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1380-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 10/18/2021. The report (revision 1) is being revised to change sample ID C-76 to C-206 0-1' per Daniel St. Germain (email).

Receipt

The samples were received on 10/7/2021 3:51 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.0° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9203 and analytical batch 880-9437 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The continuing calibration verification (CCV) associated with batch 880-9576 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-9576/19).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Client Sample ID: C-51 3'

Date Collected: 10/07/21 09:09

Date Received: 10/07/21 15:51

Sample Depth: 3

Lab Sample ID: 890-1380-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		10/11/21 11:51	10/15/21 03:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 03:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 03:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/11/21 11:51	10/15/21 03:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 03:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/21 11:51	10/15/21 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/11/21 11:51	10/15/21 03:07	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/11/21 11:51	10/15/21 03:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/18/21 14:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 12:06	10/16/21 18:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 12:06	10/16/21 18:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 12:06	10/16/21 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	10/14/21 12:06	10/16/21 18:06	1
o-Terphenyl	99		70 - 130	10/14/21 12:06	10/16/21 18:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.3		4.95	mg/Kg			10/16/21 15:24	1

Client Sample ID: C-54 3'

Date Collected: 10/07/21 09:15

Date Received: 10/07/21 15:51

Sample Depth: 3

Lab Sample ID: 890-1380-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *1	0.00198	mg/Kg		10/11/21 11:51	10/15/21 03:27	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:51	10/15/21 03:27	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:51	10/15/21 03:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/11/21 11:51	10/15/21 03:27	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/11/21 11:51	10/15/21 03:27	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/11/21 11:51	10/15/21 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/11/21 11:51	10/15/21 03:27	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Client Sample ID: C-54 3'

Date Collected: 10/07/21 09:15

Date Received: 10/07/21 15:51

Sample Depth: 3

Lab Sample ID: 890-1380-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	10/11/21 11:51	10/15/21 03:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/18/21 14:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 12:06	10/16/21 18:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 12:06	10/16/21 18:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 12:06	10/16/21 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			10/14/21 12:06	10/16/21 18:26	1
o-Terphenyl	99		70 - 130			10/14/21 12:06	10/16/21 18:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		4.98	mg/Kg			10/16/21 15:30	1

Client Sample ID: C-57 3'

Date Collected: 10/07/21 09:18

Date Received: 10/07/21 15:51

Sample Depth: 3

Lab Sample ID: 890-1380-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		10/11/21 11:51	10/15/21 03:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:51	10/15/21 03:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:51	10/15/21 03:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/11/21 11:51	10/15/21 03:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:51	10/15/21 03:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/11/21 11:51	10/15/21 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/11/21 11:51	10/15/21 03:48	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/11/21 11:51	10/15/21 03:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/18/21 14:08	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Client Sample ID: C-57 3'

Date Collected: 10/07/21 09:18

Date Received: 10/07/21 15:51

Sample Depth: 3

Lab Sample ID: 890-1380-3

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 12:06	10/16/21 18:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 12:06	10/16/21 18:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 12:06	10/16/21 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			10/14/21 12:06	10/16/21 18:46	1
o-Terphenyl	96		70 - 130			10/14/21 12:06	10/16/21 18:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		5.00	mg/Kg			10/16/21 15:36	1

Client Sample ID: C-58 3'

Date Collected: 10/07/21 09:19

Date Received: 10/07/21 15:51

Sample Depth: 3

Lab Sample ID: 890-1380-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1	0.00201	mg/Kg		10/11/21 11:51	10/15/21 05:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:51	10/15/21 05:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/11/21 11:51	10/15/21 05:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/11/21 11:51	10/15/21 05:36	1
o-Xylene	0.00396		0.00201	mg/Kg		10/11/21 11:51	10/15/21 05:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/11/21 11:51	10/15/21 05:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			10/11/21 11:51	10/15/21 05:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/11/21 11:51	10/15/21 05:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/18/21 14:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 12:06	10/16/21 19:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 12:06	10/16/21 19:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 12:06	10/16/21 19:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			10/14/21 12:06	10/16/21 19:06	1
o-Terphenyl	99		70 - 130			10/14/21 12:06	10/16/21 19:06	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Client Sample ID: C-58 3'

Lab Sample ID: 890-1380-4

Date Collected: 10/07/21 09:19

Matrix: Solid

Date Received: 10/07/21 15:51

Sample Depth: 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		5.02	mg/Kg			10/16/21 15:43	1

Client Sample ID: C-206 0-1'

Lab Sample ID: 890-1380-5

Date Collected: 10/07/21 09:22

Matrix: Solid

Date Received: 10/07/21 15:51

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		10/11/21 11:51	10/15/21 05:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 05:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 05:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/11/21 11:51	10/15/21 05:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 05:57	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/11/21 11:51	10/15/21 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/11/21 11:51	10/15/21 05:57	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/11/21 11:51	10/15/21 05:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/18/21 14:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 12:06	10/16/21 19:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 12:06	10/16/21 19:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 12:06	10/16/21 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	10/14/21 12:06	10/16/21 19:26	1
o-Terphenyl	93		70 - 130	10/14/21 12:06	10/16/21 19:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	353		5.00	mg/Kg			10/16/21 15:49	1

Client Sample ID: C-236 4.1'

Lab Sample ID: 890-1380-6

Date Collected: 10/07/21 08:54

Matrix: Solid

Date Received: 10/07/21 15:51

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *1	0.00202	mg/Kg		10/11/21 11:51	10/15/21 06:17	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Client Sample ID: C-236 4.1'

Lab Sample ID: 890-1380-6

Date Collected: 10/07/21 08:54

Matrix: Solid

Date Received: 10/07/21 15:51

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00202	U	0.00202	mg/Kg		10/11/21 11:51	10/15/21 06:17	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/11/21 11:51	10/15/21 06:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/11/21 11:51	10/15/21 06:17	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/11/21 11:51	10/15/21 06:17	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/11/21 11:51	10/15/21 06:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/11/21 11:51	10/15/21 06:17	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/11/21 11:51	10/15/21 06:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/18/21 14:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 12:06	10/16/21 19:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 12:06	10/16/21 19:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 12:06	10/16/21 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	10/14/21 12:06	10/16/21 19:46	1
o-Terphenyl	96		70 - 130	10/14/21 12:06	10/16/21 19:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	716		4.98	mg/Kg			10/16/21 16:08	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1368-A-1-H MSD	Matrix Spike Duplicate	124	10 S1-
890-1368-A-1-J MS	Matrix Spike	1186 S1+	49 S1-
890-1380-1	C-51 3'	95	99
890-1380-2	C-54 3'	90	106
890-1380-3	C-57 3'	92	105
890-1380-4	C-58 3'	91	94
890-1380-5	C-206 0-1'	92	101
890-1380-6	C-236 4.1'	93	108
LCS 880-9203/1-A	Lab Control Sample	87	80
LCSD 880-9203/2-A	Lab Control Sample Dup	85	100
MB 880-9203/5-A	Method Blank	101	104
MB 880-9306/5-A	Method Blank	100	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1380-1	C-51 3'	99	99
890-1380-2	C-54 3'	99	99
890-1380-3	C-57 3'	94	96
890-1380-4	C-58 3'	99	99
890-1380-5	C-206 0-1'	90	93
890-1380-6	C-236 4.1'	91	96
890-1397-A-41-C MS	Matrix Spike	104	94
890-1397-A-41-D MSD	Matrix Spike Duplicate	86	78
LCS 880-9458/2-A	Lab Control Sample	106	94
LCSD 880-9458/3-A	Lab Control Sample Dup	94	96
MB 880-9458/1-A	Method Blank	95	98

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9203/5-A

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9203

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 00:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 00:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 00:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/11/21 11:51	10/15/21 00:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/21 11:51	10/15/21 00:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/21 11:51	10/15/21 00:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/11/21 11:51	10/15/21 00:15	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/11/21 11:51	10/15/21 00:15	1

Lab Sample ID: LCS 880-9203/1-A

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07006		mg/Kg		70	70 - 130
Toluene	0.100	0.07910		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08412		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1588		mg/Kg		79	70 - 130
o-Xylene	0.100	0.08688		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: LCSD 880-9203/2-A

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9203

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1032	*1	mg/Kg		103	70 - 130	38	35
Toluene	0.100	0.1035		mg/Kg		103	70 - 130	27	35
Ethylbenzene	0.100	0.1105		mg/Kg		110	70 - 130	27	35
m-Xylene & p-Xylene	0.200	0.2112		mg/Kg		106	70 - 130	28	35
o-Xylene	0.100	0.1090		mg/Kg		109	70 - 130	23	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-1368-A-1-H MSD

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9203

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U *1 F1 F2	0.0990	0.006864	F1 F2	mg/Kg		7	70 - 130	183	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1368-A-1-H MSD

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9203

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	<0.00199	U F1 F2	0.0990	0.002203	F1 F2	mg/Kg		2	70 - 130	186	35
Ethylbenzene	<0.00199	U F1 F2	0.0990	0.01848	F1 F2	mg/Kg		19	70 - 130	71	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.05743	F1	mg/Kg		29	70 - 130	7	35
o-Xylene	<0.00199	U F1 F2	0.0990	0.03581	F1 F2	mg/Kg		36	70 - 130	63	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	10	S1-	70 - 130

Lab Sample ID: 890-1368-A-1-J MS

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9203

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U *1 F1 F2	0.100	0.1553	F1	mg/Kg		155	70 - 130
Toluene	<0.00199	U F1 F2	0.100	0.06144	F1	mg/Kg		61	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.100	0.03870	F1	mg/Kg		39	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.05344	F1	mg/Kg		27	70 - 130
o-Xylene	<0.00199	U F1 F2	0.100	0.06883	F1	mg/Kg		69	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	1186	S1+	70 - 130
1,4-Difluorobenzene (Surr)	49	S1-	70 - 130

Lab Sample ID: MB 880-9306/5-A

Matrix: Solid

Analysis Batch: 9437

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9306

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:26	10/14/21 12:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:26	10/14/21 12:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:26	10/14/21 12:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/12/21 12:26	10/14/21 12:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/21 12:26	10/14/21 12:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/12/21 12:26	10/14/21 12:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/12/21 12:26	10/14/21 12:41	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/12/21 12:26	10/14/21 12:41	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-9458/1-A

Matrix: Solid

Analysis Batch: 9576

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9458

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 12:06	10/16/21 12:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 12:06	10/16/21 12:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 12:06	10/16/21 12:04	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			10/14/21 12:06	10/16/21 12:04	1
o-Terphenyl	98		70 - 130			10/14/21 12:06	10/16/21 12:04	1

Lab Sample ID: LCS 880-9458/2-A

Matrix: Solid

Analysis Batch: 9576

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	975.9		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	928.3		mg/Kg		93	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	106		70 - 130				
o-Terphenyl	94		70 - 130				

Lab Sample ID: LCSD 880-9458/3-A

Matrix: Solid

Analysis Batch: 9576

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9458

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	875.6		mg/Kg		88	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	928.0		mg/Kg		93	70 - 130	0	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	96		70 - 130						

Lab Sample ID: 890-1397-A-41-C MS

Matrix: Solid

Analysis Batch: 9576

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9458

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1002		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	916.4		mg/Kg		89	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1397-A-41-C MS

Matrix: Solid

Analysis Batch: 9576

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9458

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-1397-A-41-D MSD

Matrix: Solid

Analysis Batch: 9576

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9458

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	906.7		mg/Kg		88	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	750.8		mg/Kg		72	70 - 130	20	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	78		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9413/1-A

Matrix: Solid

Analysis Batch: 9591

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/16/21 14:02	1

Lab Sample ID: LCS 880-9413/2-A

Matrix: Solid

Analysis Batch: 9591

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	239.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-9413/3-A

Matrix: Solid

Analysis Batch: 9591

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	238.9		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-1380-5 MS

Matrix: Solid

Analysis Batch: 9591

Client Sample ID: C-206 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	353		250	614.2		mg/Kg		105	90 - 110

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1380-5 MSD							Client Sample ID: C-206 0-1'					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 9591												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	353		250	602.6		mg/Kg		100	90 - 110	2	20	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

GC VOA

Prep Batch: 9203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1380-1	C-51 3'	Total/NA	Solid	5035	
890-1380-2	C-54 3'	Total/NA	Solid	5035	
890-1380-3	C-57 3'	Total/NA	Solid	5035	
890-1380-4	C-58 3'	Total/NA	Solid	5035	
890-1380-5	C-206 0-1'	Total/NA	Solid	5035	
890-1380-6	C-236 4.1'	Total/NA	Solid	5035	
MB 880-9203/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9203/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9203/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1368-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
890-1368-A-1-J MS	Matrix Spike	Total/NA	Solid	5035	

Prep Batch: 9306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9306/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 9437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1380-1	C-51 3'	Total/NA	Solid	8021B	9203
890-1380-2	C-54 3'	Total/NA	Solid	8021B	9203
890-1380-3	C-57 3'	Total/NA	Solid	8021B	9203
890-1380-4	C-58 3'	Total/NA	Solid	8021B	9203
890-1380-5	C-206 0-1'	Total/NA	Solid	8021B	9203
890-1380-6	C-236 4.1'	Total/NA	Solid	8021B	9203
MB 880-9203/5-A	Method Blank	Total/NA	Solid	8021B	9203
MB 880-9306/5-A	Method Blank	Total/NA	Solid	8021B	9306
LCS 880-9203/1-A	Lab Control Sample	Total/NA	Solid	8021B	9203
LCSD 880-9203/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9203
890-1368-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9203
890-1368-A-1-J MS	Matrix Spike	Total/NA	Solid	8021B	9203

Analysis Batch: 9497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1380-1	C-51 3'	Total/NA	Solid	Total BTEX	
890-1380-2	C-54 3'	Total/NA	Solid	Total BTEX	
890-1380-3	C-57 3'	Total/NA	Solid	Total BTEX	
890-1380-4	C-58 3'	Total/NA	Solid	Total BTEX	
890-1380-5	C-206 0-1'	Total/NA	Solid	Total BTEX	
890-1380-6	C-236 4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 9458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1380-1	C-51 3'	Total/NA	Solid	8015NM Prep	
890-1380-2	C-54 3'	Total/NA	Solid	8015NM Prep	
890-1380-3	C-57 3'	Total/NA	Solid	8015NM Prep	
890-1380-4	C-58 3'	Total/NA	Solid	8015NM Prep	
890-1380-5	C-206 0-1'	Total/NA	Solid	8015NM Prep	
890-1380-6	C-236 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-9458/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 9458 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-9458/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9458/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1397-A-41-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1397-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1380-1	C-51 3'	Total/NA	Solid	8015B NM	9458
890-1380-2	C-54 3'	Total/NA	Solid	8015B NM	9458
890-1380-3	C-57 3'	Total/NA	Solid	8015B NM	9458
890-1380-4	C-58 3'	Total/NA	Solid	8015B NM	9458
890-1380-5	C-206 0-1'	Total/NA	Solid	8015B NM	9458
890-1380-6	C-236 4.1'	Total/NA	Solid	8015B NM	9458
MB 880-9458/1-A	Method Blank	Total/NA	Solid	8015B NM	9458
LCS 880-9458/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9458
LCSD 880-9458/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9458
890-1397-A-41-C MS	Matrix Spike	Total/NA	Solid	8015B NM	9458
890-1397-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9458

Analysis Batch: 9749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1380-1	C-51 3'	Total/NA	Solid	8015 NM	
890-1380-2	C-54 3'	Total/NA	Solid	8015 NM	
890-1380-3	C-57 3'	Total/NA	Solid	8015 NM	
890-1380-4	C-58 3'	Total/NA	Solid	8015 NM	
890-1380-5	C-206 0-1'	Total/NA	Solid	8015 NM	
890-1380-6	C-236 4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 9413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1380-1	C-51 3'	Soluble	Solid	DI Leach	
890-1380-2	C-54 3'	Soluble	Solid	DI Leach	
890-1380-3	C-57 3'	Soluble	Solid	DI Leach	
890-1380-4	C-58 3'	Soluble	Solid	DI Leach	
890-1380-5	C-206 0-1'	Soluble	Solid	DI Leach	
890-1380-6	C-236 4.1'	Soluble	Solid	DI Leach	
MB 880-9413/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9413/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9413/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1380-5 MS	C-206 0-1'	Soluble	Solid	DI Leach	
890-1380-5 MSD	C-206 0-1'	Soluble	Solid	DI Leach	

Analysis Batch: 9591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1380-1	C-51 3'	Soluble	Solid	300.0	9413
890-1380-2	C-54 3'	Soluble	Solid	300.0	9413
890-1380-3	C-57 3'	Soluble	Solid	300.0	9413
890-1380-4	C-58 3'	Soluble	Solid	300.0	9413
890-1380-5	C-206 0-1'	Soluble	Solid	300.0	9413

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 9591 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1380-6	C-236 4.1'	Soluble	Solid	300.0	9413
MB 880-9413/1-A	Method Blank	Soluble	Solid	300.0	9413
LCS 880-9413/2-A	Lab Control Sample	Soluble	Solid	300.0	9413
LCSD 880-9413/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9413
890-1380-5 MS	C-206 0-1'	Soluble	Solid	300.0	9413
890-1380-5 MSD	C-206 0-1'	Soluble	Solid	300.0	9413

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Client Sample ID: C-51 3'

Date Collected: 10/07/21 09:09

Date Received: 10/07/21 15:51

Lab Sample ID: 890-1380-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 03:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9749	10/18/21 14:08	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9458	10/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9576	10/16/21 18:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9413	10/13/21 18:41	CA	XEN MID
Soluble	Analysis	300.0		1			9591	10/16/21 15:24	CH	XEN MID

Client Sample ID: C-54 3'

Date Collected: 10/07/21 09:15

Date Received: 10/07/21 15:51

Lab Sample ID: 890-1380-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 03:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9749	10/18/21 14:08	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9458	10/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9576	10/16/21 18:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9413	10/13/21 18:41	CA	XEN MID
Soluble	Analysis	300.0		1			9591	10/16/21 15:30	CH	XEN MID

Client Sample ID: C-57 3'

Date Collected: 10/07/21 09:18

Date Received: 10/07/21 15:51

Lab Sample ID: 890-1380-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 03:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9749	10/18/21 14:08	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9458	10/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9576	10/16/21 18:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9413	10/13/21 18:41	CA	XEN MID
Soluble	Analysis	300.0		1			9591	10/16/21 15:36	CH	XEN MID

Client Sample ID: C-58 3'

Date Collected: 10/07/21 09:19

Date Received: 10/07/21 15:51

Lab Sample ID: 890-1380-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 05:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Client Sample ID: C-58 3'

Date Collected: 10/07/21 09:19

Date Received: 10/07/21 15:51

Lab Sample ID: 890-1380-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9749	10/18/21 14:08	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9458	10/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9576	10/16/21 19:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9413	10/13/21 18:41	CA	XEN MID
Soluble	Analysis	300.0		1			9591	10/16/21 15:43	CH	XEN MID

Client Sample ID: C-206 0-1'

Date Collected: 10/07/21 09:22

Date Received: 10/07/21 15:51

Lab Sample ID: 890-1380-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 05:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9749	10/18/21 14:08	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9458	10/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9576	10/16/21 19:26	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9413	10/13/21 18:41	CA	XEN MID
Soluble	Analysis	300.0		1			9591	10/16/21 15:49	CH	XEN MID

Client Sample ID: C-236 4.1'

Date Collected: 10/07/21 08:54

Date Received: 10/07/21 15:51

Lab Sample ID: 890-1380-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 06:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9749	10/18/21 14:08	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9458	10/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9576	10/16/21 19:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9413	10/13/21 18:41	CA	XEN MID
Soluble	Analysis	300.0		1			9591	10/16/21 16:08	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1380-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1380-1	C-51 3'	Solid	10/07/21 09:09	10/07/21 15:51	3
890-1380-2	C-54 3'	Solid	10/07/21 09:15	10/07/21 15:51	3
890-1380-3	C-57 3'	Solid	10/07/21 09:18	10/07/21 15:51	3
890-1380-4	C-58 3'	Solid	10/07/21 09:19	10/07/21 15:51	3
890-1380-5	C-206 0-1'	Solid	10/07/21 09:22	10/07/21 15:51	
890-1380-6	C-236 4.1'	Solid	10/07/21 08:54	10/07/21 15:51	4.1

[illegible]

Eurofins Xenco. Carlsbad

1089 N Canal St

Carlsbad, NM 88220

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)						Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact:						Taylor Holly			890-454 1
Shipping/Receiving						E-Mail	taylor@eurofinset.com	State of Origin	Page:
Company:						holly	New Mexico		Page 1 of 1
Eurofins Xenco						Accreditations Required (See note).			Job #:
Address						NELAP - Louisiana, NELAP - Texas			890-1380-1
City						Analysis Requested			Preservation Codes
1211 W Florida Ave									A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amchlor H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA Other
Midland									M. Hexane N. None O. AsNaO2 P. Na2OAS Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecylpyrate U. Acetone V. MCAA W. pH 4.5 Z. other (specify)
State, Zip TX, 79701									
Phone 432-704-5440(Tel)									
Email									
Project Name: Palmito Ast									
Site									
Due Date Requested 10/13/2021									
TAT Requested (days):									
Sample Identification - Client ID (Lab ID)									
Sample Date									
Sample Time									
Sample Type (C=Comp, G=grat)									
Matrix (Water Based, Oil Based, Aqueous)									
Field Filtered Sample (Yes or No)									
Perform MS/MSD (Yes or No)									
8015MOD_NM/8015NM_S_Prep (MOD) Full TPH									
8015MOD_Calc									
300_ORGFEM_28D/DI_LEACH Chloride									
8021B/5035FP_Calc (MOD) BTEX - LL									
Total_BTEX_GCV									
Total Number of containers									
Special Instructions/Note									
C-51 3' (890-1380-1)									
C-54 3' (890-1380-2)									
C-57 3' (890-1380-3)									
C-58 3' (890-1380-4)									
C-76 (890-1380-5)									
C-236 4 1' (890-1380-6)									

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1380-1

SDG Number: 21-0105-02

Login Number: 1380

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1380-1

SDG Number: 21-0105-02

Login Number: 1380**List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Midland****List Creation: 10/11/21 08:46 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4/2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1410-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/25/2021 4:31:17 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1410-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Job ID: 890-1410-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1410-1

Comments

No additional comments.

Receipt

The samples were received on 10/12/2021 3:41 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9474 and analytical batch 880-9604 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-1059 (890-1410-51), C-1061 (890-1410-53), C-1062 (890-1410-54), C-1063 (890-1410-55), C-1067 (890-1410-59) and (MB 880-9472/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9471 and analytical batch 880-10194 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-9471/5-A) and (MB 880-9910/5-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9570 and analytical batch 880-9806 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-9569 and analytical batch 880-9797 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1009

Lab Sample ID: 890-1410-1

Date Collected: 10/12/21 09:09

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202	mg/Kg		10/14/21 13:03	10/23/21 10:30	1
Toluene	<0.00202	U F1	0.00202	mg/Kg		10/14/21 13:03	10/23/21 10:30	1
Ethylbenzene	<0.00202	U F1	0.00202	mg/Kg		10/14/21 13:03	10/23/21 10:30	1
m-Xylene & p-Xylene	<0.00403	U F1	0.00403	mg/Kg		10/14/21 13:03	10/23/21 10:30	1
o-Xylene	<0.00202	U F2 F1	0.00202	mg/Kg		10/14/21 13:03	10/23/21 10:30	1
Xylenes, Total	<0.00403	U F1	0.00403	mg/Kg		10/14/21 13:03	10/23/21 10:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/14/21 13:03	10/23/21 10:30	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/14/21 13:03	10/23/21 10:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 12:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 12:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	10/14/21 15:10	10/17/21 12:36	1
o-Terphenyl	100		70 - 130	10/14/21 15:10	10/17/21 12:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1730		49.7	mg/Kg			10/18/21 21:46	10

Client Sample ID: C-1010

Lab Sample ID: 890-1410-2

Date Collected: 10/12/21 09:10

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 10:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 10:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 10:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:03	10/23/21 10:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 10:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:03	10/23/21 10:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/14/21 13:03	10/23/21 10:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/14/21 13:03	10/23/21 10:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1010

Lab Sample ID: 890-1410-2

Date Collected: 10/12/21 09:10

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 13:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 13:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 13:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			10/14/21 15:10	10/17/21 13:40	1
o-Terphenyl	102		70 - 130			10/14/21 15:10	10/17/21 13:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		4.99	mg/Kg			10/18/21 21:52	1

Client Sample ID: C-1011

Lab Sample ID: 890-1410-3

Date Collected: 10/12/21 09:11

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 11:23	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 11:23	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 11:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:03	10/23/21 11:23	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 11:23	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:03	10/23/21 11:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			10/14/21 13:03	10/23/21 11:23	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/14/21 13:03	10/23/21 11:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 14:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1011

Lab Sample ID: 890-1410-3

Date Collected: 10/12/21 09:11

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 14:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			10/14/21 15:10	10/17/21 14:02	1
o-Terphenyl	101		70 - 130			10/14/21 15:10	10/17/21 14:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	248		4.96	mg/Kg			10/18/21 22:09	1

Client Sample ID: C-1012

Lab Sample ID: 890-1410-4

Date Collected: 10/12/21 09:12

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:03	10/23/21 11:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:03	10/23/21 11:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:03	10/23/21 11:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:03	10/23/21 11:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:03	10/23/21 11:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:03	10/23/21 11:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			10/14/21 13:03	10/23/21 11:50	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/14/21 13:03	10/23/21 11:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 14:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 14:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			10/14/21 15:10	10/17/21 14:23	1
o-Terphenyl	100		70 - 130			10/14/21 15:10	10/17/21 14:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		5.04	mg/Kg			10/18/21 22:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1013

Lab Sample ID: 890-1410-5

Date Collected: 10/12/21 09:13

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 12:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 12:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 12:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:03	10/23/21 12:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 12:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:03	10/23/21 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	10/14/21 13:03	10/23/21 12:17	1
1,4-Difluorobenzene (Surr)	73		70 - 130	10/14/21 13:03	10/23/21 12:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 14:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 14:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	10/14/21 15:10	10/17/21 14:44	1
o-Terphenyl	103		70 - 130	10/14/21 15:10	10/17/21 14:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		4.97	mg/Kg			10/18/21 22:20	1

Client Sample ID: C-1014

Lab Sample ID: 890-1410-6

Date Collected: 10/12/21 09:14

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:03	10/23/21 12:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:03	10/23/21 12:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:03	10/23/21 12:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:03	10/23/21 12:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:03	10/23/21 12:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:03	10/23/21 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/14/21 13:03	10/23/21 12:43	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/14/21 13:03	10/23/21 12:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1014

Lab Sample ID: 890-1410-6

Date Collected: 10/12/21 09:14

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 15:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 15:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			10/14/21 15:10	10/17/21 15:06	1
o-Terphenyl	103		70 - 130			10/14/21 15:10	10/17/21 15:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		5.04	mg/Kg			10/18/21 22:26	1

Client Sample ID: C-1015

Lab Sample ID: 890-1410-7

Date Collected: 10/12/21 09:15

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:03	10/23/21 13:10	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:03	10/23/21 13:10	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:03	10/23/21 13:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 13:03	10/23/21 13:10	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:03	10/23/21 13:10	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 13:03	10/23/21 13:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			10/14/21 13:03	10/23/21 13:10	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/14/21 13:03	10/23/21 13:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 15:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 15:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1015

Lab Sample ID: 890-1410-7

Date Collected: 10/12/21 09:15

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 15:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			10/14/21 15:10	10/17/21 15:27	1
o-Terphenyl	102		70 - 130			10/14/21 15:10	10/17/21 15:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.9		5.03	mg/Kg			10/18/21 22:31	1

Client Sample ID: C-1016

Lab Sample ID: 890-1410-8

Date Collected: 10/12/21 09:16

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 13:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 13:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 13:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:03	10/23/21 13:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 13:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:03	10/23/21 13:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			10/14/21 13:03	10/23/21 13:36	1
1,4-Difluorobenzene (Surr)	108		70 - 130			10/14/21 13:03	10/23/21 13:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 15:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 15:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 15:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/14/21 15:10	10/17/21 15:49	1
o-Terphenyl	107		70 - 130			10/14/21 15:10	10/17/21 15:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	445		4.97	mg/Kg			10/18/21 22:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1017

Lab Sample ID: 890-1410-9

Date Collected: 10/12/21 09:17

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 14:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 14:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 14:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 13:03	10/23/21 14:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 14:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 13:03	10/23/21 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/14/21 13:03	10/23/21 14:03	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/14/21 13:03	10/23/21 14:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 16:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 16:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	10/14/21 15:10	10/17/21 16:11	1
o-Terphenyl	106		70 - 130	10/14/21 15:10	10/17/21 16:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3460		25.0	mg/Kg			10/18/21 22:43	5

Client Sample ID: C-1018

Lab Sample ID: 890-1410-10

Date Collected: 10/12/21 09:18

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 14:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 14:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 14:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 13:03	10/23/21 14:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 14:45	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 13:03	10/23/21 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	10/14/21 13:03	10/23/21 14:45	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/14/21 13:03	10/23/21 14:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1018

Lab Sample ID: 890-1410-10

Date Collected: 10/12/21 09:18

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 16:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 16:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			10/14/21 15:10	10/17/21 16:32	1
o-Terphenyl	104		70 - 130			10/14/21 15:10	10/17/21 16:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1670	F1	24.8	mg/Kg			10/19/21 20:27	5

Client Sample ID: C-1019

Lab Sample ID: 890-1410-11

Date Collected: 10/12/21 09:19

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 16:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 16:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 16:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 13:03	10/23/21 16:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 16:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 13:03	10/23/21 16:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			10/14/21 13:03	10/23/21 16:30	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/14/21 13:03	10/23/21 16:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 17:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 17:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1019

Lab Sample ID: 890-1410-11

Date Collected: 10/12/21 09:19

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 17:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/14/21 15:10	10/17/21 17:15	1
o-Terphenyl	121		70 - 130			10/14/21 15:10	10/17/21 17:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2600		25.2	mg/Kg			10/19/21 20:46	5

Client Sample ID: C-1020

Lab Sample ID: 890-1410-12

Date Collected: 10/12/21 09:20

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 16:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 16:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 16:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:03	10/23/21 16:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 16:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:03	10/23/21 16:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/14/21 13:03	10/23/21 16:56	1
1,4-Difluorobenzene (Surr)	91		70 - 130			10/14/21 13:03	10/23/21 16:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 17:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 17:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			10/14/21 15:10	10/17/21 17:37	1
o-Terphenyl	104		70 - 130			10/14/21 15:10	10/17/21 17:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3510		25.2	mg/Kg			10/19/21 20:53	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1021

Lab Sample ID: 890-1410-13

Date Collected: 10/12/21 09:21

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:03	10/23/21 17:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:03	10/23/21 17:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:03	10/23/21 17:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 13:03	10/23/21 17:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:03	10/23/21 17:23	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 13:03	10/23/21 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/14/21 13:03	10/23/21 17:23	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/14/21 13:03	10/23/21 17:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 17:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 17:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	10/14/21 15:10	10/17/21 17:58	1
o-Terphenyl	106		70 - 130	10/14/21 15:10	10/17/21 17:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		5.01	mg/Kg			10/19/21 20:59	1

Client Sample ID: C-1022

Lab Sample ID: 890-1410-14

Date Collected: 10/12/21 09:22

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:03	10/23/21 17:49	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:03	10/23/21 17:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:03	10/23/21 17:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 13:03	10/23/21 17:49	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:03	10/23/21 17:49	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 13:03	10/23/21 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/14/21 13:03	10/23/21 17:49	1
1,4-Difluorobenzene (Surr)	87		70 - 130	10/14/21 13:03	10/23/21 17:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1022

Lab Sample ID: 890-1410-14

Date Collected: 10/12/21 09:22

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 18:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 18:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			10/14/21 15:10	10/17/21 18:20	1
o-Terphenyl	105		70 - 130			10/14/21 15:10	10/17/21 18:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1570		24.8	mg/Kg			10/19/21 21:05	5

Client Sample ID: C-1023

Lab Sample ID: 890-1410-15

Date Collected: 10/12/21 09:23

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:03	10/23/21 18:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:03	10/23/21 18:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:03	10/23/21 18:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:03	10/23/21 18:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:03	10/23/21 18:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:03	10/23/21 18:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			10/14/21 13:03	10/23/21 18:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130			10/14/21 13:03	10/23/21 18:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 18:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 18:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1023

Lab Sample ID: 890-1410-15

Date Collected: 10/12/21 09:23

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			10/14/21 15:10	10/17/21 18:41	1
o-Terphenyl	103		70 - 130			10/14/21 15:10	10/17/21 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3130		25.2	mg/Kg			10/19/21 21:24	5

Client Sample ID: C-1024

Lab Sample ID: 890-1410-16

Date Collected: 10/12/21 09:24

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 18:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 18:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 18:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:03	10/23/21 18:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 18:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:03	10/23/21 18:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			10/14/21 13:03	10/23/21 18:43	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/14/21 13:03	10/23/21 18:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 19:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 19:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			10/14/21 15:10	10/17/21 19:03	1
o-Terphenyl	106		70 - 130			10/14/21 15:10	10/17/21 19:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1610		25.0	mg/Kg			10/19/21 21:30	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1025

Lab Sample ID: 890-1410-17

Date Collected: 10/12/21 09:25

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 19:11	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 19:11	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 19:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:03	10/23/21 19:11	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 19:11	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:03	10/23/21 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/14/21 13:03	10/23/21 19:11	1
1,4-Difluorobenzene (Surr)	110		70 - 130	10/14/21 13:03	10/23/21 19:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 19:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 19:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	10/14/21 15:10	10/17/21 19:25	1
o-Terphenyl	102		70 - 130	10/14/21 15:10	10/17/21 19:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390		4.97	mg/Kg			10/19/21 21:37	1

Client Sample ID: C-1026

Lab Sample ID: 890-1410-18

Date Collected: 10/12/21 09:26

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 19:39	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 19:39	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 19:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:03	10/23/21 19:39	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:03	10/23/21 19:39	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:03	10/23/21 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/14/21 13:03	10/23/21 19:39	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/14/21 13:03	10/23/21 19:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1026

Lab Sample ID: 890-1410-18

Date Collected: 10/12/21 09:26

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 19:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 19:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:10	10/17/21 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			10/14/21 15:10	10/17/21 19:46	1
o-Terphenyl	105		70 - 130			10/14/21 15:10	10/17/21 19:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		5.05	mg/Kg			10/19/21 21:43	1

Client Sample ID: C-1027

Lab Sample ID: 890-1410-19

Date Collected: 10/12/21 09:27

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 20:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 20:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 20:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 13:03	10/23/21 20:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 20:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 13:03	10/23/21 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			10/14/21 13:03	10/23/21 20:06	1
1,4-Difluorobenzene (Surr)	111		70 - 130			10/14/21 13:03	10/23/21 20:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 20:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 20:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1027

Lab Sample ID: 890-1410-19

Date Collected: 10/12/21 09:27

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 20:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			10/14/21 15:10	10/17/21 20:07	1
o-Terphenyl	105		70 - 130			10/14/21 15:10	10/17/21 20:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		5.00	mg/Kg			10/19/21 21:49	1

Client Sample ID: C-1028

Lab Sample ID: 890-1410-20

Date Collected: 10/12/21 09:28

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 20:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 20:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 20:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:03	10/23/21 20:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 20:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:03	10/23/21 20:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/14/21 13:03	10/23/21 20:34	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/14/21 13:03	10/23/21 20:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 20:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 20:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:10	10/17/21 20:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			10/14/21 15:10	10/17/21 20:29	1
o-Terphenyl	105		70 - 130			10/14/21 15:10	10/17/21 20:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2380	F1	25.1	mg/Kg			10/19/21 21:56	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1029

Lab Sample ID: 890-1410-21

Date Collected: 10/12/21 09:29

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:01	10/20/21 02:31	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:01	10/20/21 02:31	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:01	10/20/21 02:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 13:01	10/20/21 02:31	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:01	10/20/21 02:31	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 13:01	10/20/21 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/14/21 13:01	10/20/21 02:31	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/14/21 13:01	10/20/21 02:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 12:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 12:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	10/14/21 15:23	10/17/21 12:36	1
o-Terphenyl	106		70 - 130	10/14/21 15:23	10/17/21 12:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6100		49.7	mg/Kg			10/19/21 22:14	10

Client Sample ID: C-1030

Lab Sample ID: 890-1410-22

Date Collected: 10/12/21 09:30

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 02:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 02:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 02:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 02:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 02:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/14/21 13:01	10/20/21 02:52	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/14/21 13:01	10/20/21 02:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1030

Lab Sample ID: 890-1410-22

Date Collected: 10/12/21 09:30

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 13:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 13:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 13:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/14/21 15:23	10/17/21 13:40	1
o-Terphenyl	116		70 - 130			10/14/21 15:23	10/17/21 13:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2060		25.0	mg/Kg			10/19/21 22:21	5

Client Sample ID: C-1031

Lab Sample ID: 890-1410-23

Date Collected: 10/12/21 09:31

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 03:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 03:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 03:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:01	10/20/21 03:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 03:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:01	10/20/21 03:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/14/21 13:01	10/20/21 03:12	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/14/21 13:01	10/20/21 03:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 14:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1031

Lab Sample ID: 890-1410-23

Date Collected: 10/12/21 09:31

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 14:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/14/21 15:23	10/17/21 14:02	1
o-Terphenyl	106		70 - 130			10/14/21 15:23	10/17/21 14:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2260		24.8	mg/Kg			10/19/21 22:40	5

Client Sample ID: C-1032

Lab Sample ID: 890-1410-24

Date Collected: 10/12/21 09:32

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 03:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 03:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 03:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 03:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 03:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 03:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			10/14/21 13:01	10/20/21 03:32	1
1,4-Difluorobenzene (Surr)	101		70 - 130			10/14/21 13:01	10/20/21 03:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	241		49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	241		49.8	mg/Kg		10/14/21 15:23	10/17/21 14:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 14:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			10/14/21 15:23	10/17/21 14:23	1
o-Terphenyl	106		70 - 130			10/14/21 15:23	10/17/21 14:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	885		5.04	mg/Kg			10/19/21 22:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1033

Lab Sample ID: 890-1410-25

Date Collected: 10/12/21 09:33

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 03:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 03:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 03:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 03:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 03:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/14/21 13:01	10/20/21 03:53	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/14/21 13:01	10/20/21 03:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 14:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 14:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	10/14/21 15:23	10/17/21 14:44	1
o-Terphenyl	113		70 - 130	10/14/21 15:23	10/17/21 14:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2820		24.9	mg/Kg			10/19/21 22:52	5

Client Sample ID: C-1034

Lab Sample ID: 890-1410-26

Date Collected: 10/12/21 09:34

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 04:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 04:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 04:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 04:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 04:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/14/21 13:01	10/20/21 04:13	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/14/21 13:01	10/20/21 04:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1034

Lab Sample ID: 890-1410-26

Date Collected: 10/12/21 09:34

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 15:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 15:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			10/14/21 15:23	10/17/21 15:06	1
o-Terphenyl	108		70 - 130			10/14/21 15:23	10/17/21 15:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1280		5.04	mg/Kg			10/19/21 22:59	1

Client Sample ID: C-1035

Lab Sample ID: 890-1410-27

Date Collected: 10/12/21 09:35

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 04:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 04:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 04:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 13:01	10/20/21 04:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 04:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 13:01	10/20/21 04:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			10/14/21 13:01	10/20/21 04:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/14/21 13:01	10/20/21 04:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 15:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 15:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1035

Lab Sample ID: 890-1410-27

Date Collected: 10/12/21 09:35

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 15:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			10/14/21 15:23	10/17/21 15:27	1
o-Terphenyl	96		70 - 130			10/14/21 15:23	10/17/21 15:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3590		25.2	mg/Kg			10/19/21 23:05	5

Client Sample ID: C-1036

Lab Sample ID: 890-1410-28

Date Collected: 10/12/21 09:36

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 04:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 04:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 04:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:01	10/20/21 04:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 04:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:01	10/20/21 04:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/14/21 13:01	10/20/21 04:54	1
1,4-Difluorobenzene (Surr)	98		70 - 130			10/14/21 13:01	10/20/21 04:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 15:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 15:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 15:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			10/14/21 15:23	10/17/21 15:49	1
o-Terphenyl	106		70 - 130			10/14/21 15:23	10/17/21 15:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		24.9	mg/Kg			10/19/21 23:11	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1037

Lab Sample ID: 890-1410-29

Date Collected: 10/12/21 11:07

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:01	10/20/21 05:14	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:01	10/20/21 05:14	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:01	10/20/21 05:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 13:01	10/20/21 05:14	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:01	10/20/21 05:14	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 13:01	10/20/21 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/14/21 13:01	10/20/21 05:14	1
1,4-Difluorobenzene (Surr)	117		70 - 130	10/14/21 13:01	10/20/21 05:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 16:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 16:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	10/14/21 15:23	10/17/21 16:11	1
o-Terphenyl	116		70 - 130	10/14/21 15:23	10/17/21 16:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		25.0	mg/Kg			10/19/21 23:17	5

Client Sample ID: C-1038

Lab Sample ID: 890-1410-30

Date Collected: 10/12/21 11:08

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 05:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 05:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 05:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 05:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 05:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	10/14/21 13:01	10/20/21 05:35	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/14/21 13:01	10/20/21 05:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1038

Lab Sample ID: 890-1410-30

Date Collected: 10/12/21 11:08

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 16:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 16:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			10/14/21 15:23	10/17/21 16:32	1
o-Terphenyl	93		70 - 130			10/14/21 15:23	10/17/21 16:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3440		24.8	mg/Kg			10/19/21 23:26	5

Client Sample ID: C-1039

Lab Sample ID: 890-1410-31

Date Collected: 10/12/21 11:09

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 07:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 07:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 07:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 13:01	10/20/21 07:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 07:24	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 13:01	10/20/21 07:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/14/21 13:01	10/20/21 07:24	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/14/21 13:01	10/20/21 07:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 17:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 17:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1039

Lab Sample ID: 890-1410-31

Date Collected: 10/12/21 11:09

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 17:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			10/14/21 15:23	10/17/21 17:15	1
o-Terphenyl	103		70 - 130			10/14/21 15:23	10/17/21 17:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2410		25.2	mg/Kg			10/19/21 23:43	5

Client Sample ID: C-1040

Lab Sample ID: 890-1410-32

Date Collected: 10/12/21 11:10

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:01	10/20/21 07:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:01	10/20/21 07:44	1
Ethylbenzene	0.00208		0.00201	mg/Kg		10/14/21 13:01	10/20/21 07:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:01	10/20/21 07:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:01	10/20/21 07:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:01	10/20/21 07:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			10/14/21 13:01	10/20/21 07:44	1
1,4-Difluorobenzene (Surr)	112		70 - 130			10/14/21 13:01	10/20/21 07:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 17:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 17:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			10/14/21 15:23	10/17/21 17:37	1
o-Terphenyl	120		70 - 130			10/14/21 15:23	10/17/21 17:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1930		25.2	mg/Kg			10/19/21 23:49	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1041

Lab Sample ID: 890-1410-33

Date Collected: 10/12/21 11:11

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 08:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 08:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 08:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 13:01	10/20/21 08:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 08:04	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 13:01	10/20/21 08:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			10/14/21 13:01	10/20/21 08:04	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/14/21 13:01	10/20/21 08:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 17:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 17:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/14/21 15:23	10/17/21 17:58	1
o-Terphenyl	112		70 - 130			10/14/21 15:23	10/17/21 17:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4720		25.1	mg/Kg			10/19/21 23:55	5

Client Sample ID: C-1042

Lab Sample ID: 890-1410-34

Date Collected: 10/12/21 11:12

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 08:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 08:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 08:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 08:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 08:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 08:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/14/21 13:01	10/20/21 08:25	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/14/21 13:01	10/20/21 08:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1042

Lab Sample ID: 890-1410-34

Date Collected: 10/12/21 11:12

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 18:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 18:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/14/21 15:23	10/17/21 18:20	1
o-Terphenyl	102		70 - 130			10/14/21 15:23	10/17/21 18:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2140		24.8	mg/Kg			10/20/21 00:00	5

Client Sample ID: C-1043

Lab Sample ID: 890-1410-35

Date Collected: 10/12/21 11:13

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:01	10/20/21 09:22	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:01	10/20/21 09:22	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:01	10/20/21 09:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 13:01	10/20/21 09:22	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:01	10/20/21 09:22	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 13:01	10/20/21 09:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/14/21 13:01	10/20/21 09:22	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/14/21 13:01	10/20/21 09:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 18:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 18:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1043

Lab Sample ID: 890-1410-35

Date Collected: 10/12/21 11:13

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			10/14/21 15:23	10/17/21 18:41	1
o-Terphenyl	90		70 - 130			10/14/21 15:23	10/17/21 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3250		25.2	mg/Kg			10/20/21 00:17	5

Client Sample ID: C-1044

Lab Sample ID: 890-1410-36

Date Collected: 10/12/21 11:14

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 09:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 09:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 09:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:01	10/20/21 09:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 09:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:01	10/20/21 09:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/14/21 13:01	10/20/21 09:42	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/14/21 13:01	10/20/21 09:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 19:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 19:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/14/21 15:23	10/17/21 19:03	1
o-Terphenyl	122		70 - 130			10/14/21 15:23	10/17/21 19:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5040		25.0	mg/Kg			10/20/21 00:23	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1045

Lab Sample ID: 890-1410-37

Date Collected: 10/12/21 11:15

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 10:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 10:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 10:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 10:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:01	10/20/21 10:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:01	10/20/21 10:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/14/21 13:01	10/20/21 10:02	1
1,4-Difluorobenzene (Surr)	112		70 - 130	10/14/21 13:01	10/20/21 10:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 19:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 19:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	10/14/21 15:23	10/17/21 19:25	1
o-Terphenyl	100		70 - 130	10/14/21 15:23	10/17/21 19:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2770		24.9	mg/Kg			10/20/21 00:28	5

Client Sample ID: C-1046

Lab Sample ID: 890-1410-38

Date Collected: 10/12/21 11:16

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 10:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 10:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 10:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 13:01	10/20/21 10:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 10:23	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 13:01	10/20/21 10:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/14/21 13:01	10/20/21 10:23	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/14/21 13:01	10/20/21 10:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1046

Lab Sample ID: 890-1410-38

Date Collected: 10/12/21 11:16

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 19:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 19:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 15:23	10/17/21 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/14/21 15:23	10/17/21 19:46	1
o-Terphenyl	115		70 - 130			10/14/21 15:23	10/17/21 19:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9860		50.5	mg/Kg			10/20/21 00:34	10

Client Sample ID: C-1047

Lab Sample ID: 890-1410-39

Date Collected: 10/12/21 11:17

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 10:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 10:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 10:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 13:01	10/20/21 10:43	1
o-Xylene	0.00200		0.00200	mg/Kg		10/14/21 13:01	10/20/21 10:43	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 13:01	10/20/21 10:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/14/21 13:01	10/20/21 10:43	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/14/21 13:01	10/20/21 10:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.4		50.0	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 20:07	1
Diesel Range Organics (Over C10-C28)	72.4		50.0	mg/Kg		10/14/21 15:23	10/17/21 20:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1047

Lab Sample ID: 890-1410-39

Date Collected: 10/12/21 11:17

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 20:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/14/21 15:23	10/17/21 20:07	1
o-Terphenyl	116		70 - 130			10/14/21 15:23	10/17/21 20:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3530		25.0	mg/Kg			10/20/21 00:39	5

Client Sample ID: C-1048

Lab Sample ID: 890-1410-40

Date Collected: 10/12/21 11:18

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:01	10/20/21 11:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:01	10/20/21 11:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:01	10/20/21 11:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:01	10/20/21 11:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:01	10/20/21 11:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:01	10/20/21 11:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			10/14/21 13:01	10/20/21 11:04	1
1,4-Difluorobenzene (Surr)	101		70 - 130			10/14/21 13:01	10/20/21 11:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 20:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 20:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 15:23	10/17/21 20:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/14/21 15:23	10/17/21 20:29	1
o-Terphenyl	111		70 - 130			10/14/21 15:23	10/17/21 20:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	776	F1	5.01	mg/Kg			10/20/21 00:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1049

Lab Sample ID: 890-1410-41

Date Collected: 10/12/21 11:19

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:05	10/18/21 20:40	1
Toluene	0.0661		0.00198	mg/Kg		10/14/21 13:05	10/18/21 20:40	1
Ethylbenzene	0.0625		0.00198	mg/Kg		10/14/21 13:05	10/18/21 20:40	1
m-Xylene & p-Xylene	0.115		0.00396	mg/Kg		10/14/21 13:05	10/18/21 20:40	1
o-Xylene	0.0574		0.00198	mg/Kg		10/14/21 13:05	10/18/21 20:40	1
Xylenes, Total	0.172		0.00396	mg/Kg		10/14/21 13:05	10/18/21 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/14/21 13:05	10/18/21 20:40	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/14/21 13:05	10/18/21 20:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.301		0.00396	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 12:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 12:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 12:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/18/21 07:33	10/18/21 12:14	1
o-Terphenyl	104		70 - 130			10/18/21 07:33	10/18/21 12:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		24.9	mg/Kg			10/20/21 01:02	5

Client Sample ID: C-1050

Lab Sample ID: 890-1410-42

Date Collected: 10/12/21 11:20

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/18/21 22:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/18/21 22:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/18/21 22:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 13:05	10/18/21 22:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/18/21 22:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 13:05	10/18/21 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/14/21 13:05	10/18/21 22:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/14/21 13:05	10/18/21 22:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1050

Lab Sample ID: 890-1410-42

Date Collected: 10/12/21 11:20

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 13:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 13:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 13:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			10/18/21 07:33	10/18/21 13:14	1
o-Terphenyl	104		70 - 130			10/18/21 07:33	10/18/21 13:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1210		4.99	mg/Kg			10/20/21 01:07	1

Client Sample ID: C-1051

Lab Sample ID: 890-1410-43

Date Collected: 10/12/21 11:21

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/18/21 23:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/18/21 23:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/18/21 23:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 13:05	10/18/21 23:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/18/21 23:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 13:05	10/18/21 23:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			10/14/21 13:05	10/18/21 23:03	1
1,4-Difluorobenzene (Surr)	120		70 - 130			10/14/21 13:05	10/18/21 23:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 13:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 13:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1051

Lab Sample ID: 890-1410-43

Date Collected: 10/12/21 11:21

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 13:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			10/18/21 07:33	10/18/21 13:34	1
o-Terphenyl	105		70 - 130			10/18/21 07:33	10/18/21 13:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3840		24.8	mg/Kg			10/20/21 01:24	5

Client Sample ID: C-1052

Lab Sample ID: 890-1410-44

Date Collected: 10/12/21 11:22

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:05	10/18/21 23:23	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:05	10/18/21 23:23	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:05	10/18/21 23:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 13:05	10/18/21 23:23	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:05	10/18/21 23:23	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 13:05	10/18/21 23:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			10/14/21 13:05	10/18/21 23:23	1
1,4-Difluorobenzene (Surr)	88		70 - 130			10/14/21 13:05	10/18/21 23:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 13:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 13:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 13:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/18/21 07:33	10/18/21 13:54	1
o-Terphenyl	104		70 - 130			10/18/21 07:33	10/18/21 13:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3540		25.2	mg/Kg			10/20/21 01:30	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1053

Lab Sample ID: 890-1410-45

Date Collected: 10/12/21 11:23

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/18/21 23:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/18/21 23:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/18/21 23:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:05	10/18/21 23:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/18/21 23:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:05	10/18/21 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/14/21 13:05	10/18/21 23:44	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/14/21 13:05	10/18/21 23:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 14:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 14:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	10/18/21 07:33	10/18/21 14:14	1
o-Terphenyl	101		70 - 130	10/18/21 07:33	10/18/21 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4850		24.9	mg/Kg			10/20/21 01:36	5

Client Sample ID: C-1054

Lab Sample ID: 890-1410-46

Date Collected: 10/12/21 11:24

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00282		0.00201	mg/Kg		10/14/21 13:05	10/19/21 00:05	1
Toluene	0.00229		0.00201	mg/Kg		10/14/21 13:05	10/19/21 00:05	1
Ethylbenzene	0.00282		0.00201	mg/Kg		10/14/21 13:05	10/19/21 00:05	1
m-Xylene & p-Xylene	0.00735		0.00402	mg/Kg		10/14/21 13:05	10/19/21 00:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 00:05	1
Xylenes, Total	0.00735		0.00402	mg/Kg		10/14/21 13:05	10/19/21 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/14/21 13:05	10/19/21 00:05	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/14/21 13:05	10/19/21 00:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1054

Lab Sample ID: 890-1410-46

Date Collected: 10/12/21 11:24

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0153		0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 14:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 14:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 14:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			10/18/21 07:33	10/18/21 14:34	1
o-Terphenyl	112		70 - 130			10/18/21 07:33	10/18/21 14:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2870		25.2	mg/Kg			10/20/21 01:41	5

Client Sample ID: C-1055

Lab Sample ID: 890-1410-47

Date Collected: 10/12/21 11:25

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 00:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 00:25	1
Ethylbenzene	0.00320		0.00200	mg/Kg		10/14/21 13:05	10/19/21 00:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 13:05	10/19/21 00:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 00:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 13:05	10/19/21 00:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			10/14/21 13:05	10/19/21 00:25	1
1,4-Difluorobenzene (Surr)	82		70 - 130			10/14/21 13:05	10/19/21 00:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 14:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 14:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1055

Lab Sample ID: 890-1410-47

Date Collected: 10/12/21 11:25

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			10/18/21 07:33	10/18/21 14:54	1
o-Terphenyl	103		70 - 130			10/18/21 07:33	10/18/21 14:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1610		25.2	mg/Kg			10/20/21 01:47	5

Client Sample ID: C-1056

Lab Sample ID: 890-1410-48

Date Collected: 10/12/21 11:26

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:05	10/19/21 00:46	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:05	10/19/21 00:46	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:05	10/19/21 00:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 13:05	10/19/21 00:46	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:05	10/19/21 00:46	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 13:05	10/19/21 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			10/14/21 13:05	10/19/21 00:46	1
1,4-Difluorobenzene (Surr)	91		70 - 130			10/14/21 13:05	10/19/21 00:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.1		49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 15:31	1
Diesel Range Organics (Over C10-C28)	73.1		49.8	mg/Kg		10/18/21 07:33	10/18/21 15:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 15:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			10/18/21 07:33	10/18/21 15:31	1
o-Terphenyl	0.1	S1-	70 - 130			10/18/21 07:33	10/18/21 15:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2280		24.9	mg/Kg			10/20/21 01:53	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1057

Lab Sample ID: 890-1410-49

Date Collected: 10/12/21 11:27

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:05	10/19/21 01:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:05	10/19/21 01:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:05	10/19/21 01:06	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 13:05	10/19/21 01:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:05	10/19/21 01:06	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 13:05	10/19/21 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/14/21 13:05	10/19/21 01:06	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/14/21 13:05	10/19/21 01:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 15:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 15:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	10/18/21 07:33	10/18/21 15:51	1
o-Terphenyl	109		70 - 130	10/18/21 07:33	10/18/21 15:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3990		25.0	mg/Kg			10/20/21 01:58	5

Client Sample ID: C-1058

Lab Sample ID: 890-1410-50

Date Collected: 10/12/21 13:18

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 01:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 01:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 01:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 13:05	10/19/21 01:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 01:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 13:05	10/19/21 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/14/21 13:05	10/19/21 01:27	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/14/21 13:05	10/19/21 01:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1058

Lab Sample ID: 890-1410-50

Date Collected: 10/12/21 13:18

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 16:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 16:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 16:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			10/18/21 07:33	10/18/21 16:11	1
o-Terphenyl	104		70 - 130			10/18/21 07:33	10/18/21 16:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	946	F1	4.95	mg/Kg			10/20/21 18:46	1

Client Sample ID: C-1059

Lab Sample ID: 890-1410-51

Date Collected: 10/12/21 13:19

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 08:55	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 08:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 08:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:05	10/19/21 08:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 08:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:05	10/19/21 08:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	339	S1+	70 - 130			10/14/21 13:05	10/19/21 08:55	1
1,4-Difluorobenzene (Surr)	77		70 - 130			10/14/21 13:05	10/19/21 08:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.6		49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 18:54	1
Diesel Range Organics (Over C10-C28)	75.6		49.9	mg/Kg		10/18/21 07:33	10/18/21 18:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1059

Lab Sample ID: 890-1410-51

Date Collected: 10/12/21 13:19

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 18:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			10/18/21 07:33	10/18/21 18:54	1
o-Terphenyl	0.3	S1-	70 - 130			10/18/21 07:33	10/18/21 18:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		5.03	mg/Kg			10/20/21 19:08	1

Client Sample ID: C-1060

Lab Sample ID: 890-1410-52

Date Collected: 10/12/21 13:20

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 09:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 09:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 09:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 13:05	10/19/21 09:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 09:16	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 13:05	10/19/21 09:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			10/14/21 13:05	10/19/21 09:16	1
1,4-Difluorobenzene (Surr)	97		70 - 130			10/14/21 13:05	10/19/21 09:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 19:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 19:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 19:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			10/18/21 07:33	10/18/21 19:14	1
o-Terphenyl	100		70 - 130			10/18/21 07:33	10/18/21 19:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1320		5.03	mg/Kg			10/20/21 19:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1061

Lab Sample ID: 890-1410-53

Date Collected: 10/12/21 13:21

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 09:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 09:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 09:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 13:05	10/19/21 09:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 09:37	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 13:05	10/19/21 09:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/14/21 13:05	10/19/21 09:37	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	10/14/21 13:05	10/19/21 09:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 19:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 19:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	10/18/21 07:33	10/18/21 19:34	1
o-Terphenyl	107		70 - 130	10/18/21 07:33	10/18/21 19:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		5.01	mg/Kg			10/20/21 19:22	1

Client Sample ID: C-1062

Lab Sample ID: 890-1410-54

Date Collected: 10/12/21 13:22

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:05	10/19/21 09:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:05	10/19/21 09:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:05	10/19/21 09:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:05	10/19/21 09:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:05	10/19/21 09:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:05	10/19/21 09:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	10/14/21 13:05	10/19/21 09:57	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/14/21 13:05	10/19/21 09:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1062

Lab Sample ID: 890-1410-54

Date Collected: 10/12/21 13:22

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 19:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 19:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 19:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			10/18/21 07:33	10/18/21 19:54	1
o-Terphenyl	100		70 - 130			10/18/21 07:33	10/18/21 19:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1640		24.8	mg/Kg			10/20/21 19:29	5

Client Sample ID: C-1063

Lab Sample ID: 890-1410-55

Date Collected: 10/12/21 13:23

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 10:18	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 10:18	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 10:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:05	10/19/21 10:18	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 10:18	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:05	10/19/21 10:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			10/14/21 13:05	10/19/21 10:18	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/14/21 13:05	10/19/21 10:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 20:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 20:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1063

Lab Sample ID: 890-1410-55

Date Collected: 10/12/21 13:23

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 20:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/18/21 07:33	10/18/21 20:14	1
o-Terphenyl	102		70 - 130			10/18/21 07:33	10/18/21 20:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7080		50.4	mg/Kg			10/20/21 19:51	10

Client Sample ID: C-1064

Lab Sample ID: 890-1410-56

Date Collected: 10/12/21 13:24

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 10:39	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 10:39	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 10:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:05	10/19/21 10:39	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 10:39	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:05	10/19/21 10:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			10/14/21 13:05	10/19/21 10:39	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/14/21 13:05	10/19/21 10:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 20:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 20:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 20:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			10/18/21 07:33	10/18/21 20:34	1
o-Terphenyl	107		70 - 130			10/18/21 07:33	10/18/21 20:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1860		25.0	mg/Kg			10/20/21 19:58	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1065

Lab Sample ID: 890-1410-57

Date Collected: 10/12/21 13:25

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 11:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 11:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 11:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 13:05	10/19/21 11:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/19/21 11:00	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 13:05	10/19/21 11:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/14/21 13:05	10/19/21 11:00	1
1,4-Difluorobenzene (Surr)	124		70 - 130	10/14/21 13:05	10/19/21 11:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 20:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 20:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 20:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/18/21 07:33	10/18/21 20:54	1
o-Terphenyl	107		70 - 130			10/18/21 07:33	10/18/21 20:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2010		24.9	mg/Kg			10/20/21 20:05	5

Client Sample ID: C-1066

Lab Sample ID: 890-1410-58

Date Collected: 10/12/21 13:26

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:05	10/19/21 11:20	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:05	10/19/21 11:20	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:05	10/19/21 11:20	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/14/21 13:05	10/19/21 11:20	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:05	10/19/21 11:20	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/14/21 13:05	10/19/21 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/14/21 13:05	10/19/21 11:20	1
1,4-Difluorobenzene (Surr)	114		70 - 130	10/14/21 13:05	10/19/21 11:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1066

Lab Sample ID: 890-1410-58

Date Collected: 10/12/21 13:26

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 21:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 21:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 21:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			10/18/21 07:33	10/18/21 21:14	1
o-Terphenyl	107		70 - 130			10/18/21 07:33	10/18/21 21:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100		25.3	mg/Kg			10/20/21 20:12	5

Client Sample ID: C-1067

Lab Sample ID: 890-1410-59

Date Collected: 10/12/21 13:27

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 11:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 11:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 11:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:05	10/19/21 11:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:05	10/19/21 11:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:05	10/19/21 11:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130			10/14/21 13:05	10/19/21 11:41	1
1,4-Difluorobenzene (Surr)	114		70 - 130			10/14/21 13:05	10/19/21 11:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 21:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 21:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1067

Lab Sample ID: 890-1410-59

Date Collected: 10/12/21 13:27

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:33	10/18/21 21:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			10/18/21 07:33	10/18/21 21:34	1
o-Terphenyl	102		70 - 130			10/18/21 07:33	10/18/21 21:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5370		25.0	mg/Kg			10/20/21 20:19	5

Client Sample ID: C-1068

Lab Sample ID: 890-1410-60

Date Collected: 10/12/21 13:28

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:05	10/19/21 12:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:05	10/19/21 12:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:05	10/19/21 12:02	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/14/21 13:05	10/19/21 12:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:05	10/19/21 12:02	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/14/21 13:05	10/19/21 12:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			10/14/21 13:05	10/19/21 12:02	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/14/21 13:05	10/19/21 12:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 21:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 21:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:33	10/18/21 21:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			10/18/21 07:33	10/18/21 21:55	1
o-Terphenyl	112		70 - 130			10/18/21 07:33	10/18/21 21:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1930	F1	25.1	mg/Kg			10/20/21 20:26	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1069

Lab Sample ID: 890-1410-61

Date Collected: 10/12/21 13:29

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 14:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 14:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 14:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:08	10/19/21 14:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 14:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:08	10/19/21 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/14/21 13:08	10/19/21 14:58	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/14/21 13:08	10/19/21 14:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 12:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 12:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	10/18/21 07:40	10/18/21 12:14	1
o-Terphenyl	95		70 - 130	10/18/21 07:40	10/18/21 12:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6590		49.7	mg/Kg			10/20/21 20:48	10

Client Sample ID: C-1070

Lab Sample ID: 890-1410-62

Date Collected: 10/12/21 13:30

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 15:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 15:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 15:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:08	10/19/21 15:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 15:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:08	10/19/21 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/14/21 13:08	10/19/21 15:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/14/21 13:08	10/19/21 15:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1070

Lab Sample ID: 890-1410-62

Date Collected: 10/12/21 13:30

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 13:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 13:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 13:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			10/18/21 07:40	10/18/21 13:14	1
o-Terphenyl	98		70 - 130			10/18/21 07:40	10/18/21 13:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3730		25.0	mg/Kg			10/20/21 20:55	5

Client Sample ID: C-1071

Lab Sample ID: 890-1410-63

Date Collected: 10/12/21 13:31

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:08	10/19/21 15:38	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:08	10/19/21 15:38	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:08	10/19/21 15:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/14/21 13:08	10/19/21 15:38	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:08	10/19/21 15:38	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/14/21 13:08	10/19/21 15:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			10/14/21 13:08	10/19/21 15:38	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/14/21 13:08	10/19/21 15:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 13:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 13:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1071

Lab Sample ID: 890-1410-63

Date Collected: 10/12/21 13:31

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 13:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			10/18/21 07:40	10/18/21 13:34	1
o-Terphenyl	99		70 - 130			10/18/21 07:40	10/18/21 13:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3260		24.8	mg/Kg			10/20/21 21:17	5

Client Sample ID: C-1072

Lab Sample ID: 890-1410-64

Date Collected: 10/12/21 13:32

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 15:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 15:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 15:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 13:08	10/19/21 15:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 15:59	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 13:08	10/19/21 15:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/14/21 13:08	10/19/21 15:59	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/14/21 13:08	10/19/21 15:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 13:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 13:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 13:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			10/18/21 07:40	10/18/21 13:54	1
o-Terphenyl	101		70 - 130			10/18/21 07:40	10/18/21 13:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		5.04	mg/Kg			10/20/21 21:24	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1073

Lab Sample ID: 890-1410-65

Date Collected: 10/12/21 13:32

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 16:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 16:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 16:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 13:08	10/19/21 16:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 16:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 13:08	10/19/21 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/14/21 13:08	10/19/21 16:19	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/14/21 13:08	10/19/21 16:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 14:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 14:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	10/18/21 07:40	10/18/21 14:14	1
o-Terphenyl	109		70 - 130	10/18/21 07:40	10/18/21 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2970		24.9	mg/Kg			10/20/21 21:31	5

Client Sample ID: C-1074

Lab Sample ID: 890-1410-66

Date Collected: 10/12/21 13:34

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 16:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 16:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 16:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 13:08	10/19/21 16:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 16:40	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 13:08	10/19/21 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/14/21 13:08	10/19/21 16:40	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/14/21 13:08	10/19/21 16:40	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1074

Lab Sample ID: 890-1410-66

Date Collected: 10/12/21 13:34

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 14:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 14:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 14:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			10/18/21 07:40	10/18/21 14:34	1
o-Terphenyl	104		70 - 130			10/18/21 07:40	10/18/21 14:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2920		25.2	mg/Kg			10/20/21 21:38	5

Client Sample ID: C-1075

Lab Sample ID: 890-1410-67

Date Collected: 10/12/21 13:35

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 17:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 17:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 17:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:08	10/19/21 17:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 17:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:08	10/19/21 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			10/14/21 13:08	10/19/21 17:00	1
1,4-Difluorobenzene (Surr)	123		70 - 130			10/14/21 13:08	10/19/21 17:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 14:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 14:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1075

Lab Sample ID: 890-1410-67

Date Collected: 10/12/21 13:35

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/18/21 07:40	10/18/21 14:54	1
o-Terphenyl	109		70 - 130			10/18/21 07:40	10/18/21 14:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3250		25.2	mg/Kg			10/20/21 21:45	5

Client Sample ID: C-1076

Lab Sample ID: 890-1410-68

Date Collected: 10/12/21 13:36

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:08	10/19/21 17:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:08	10/19/21 17:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:08	10/19/21 17:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:08	10/19/21 17:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:08	10/19/21 17:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:08	10/19/21 17:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			10/14/21 13:08	10/19/21 17:20	1
1,4-Difluorobenzene (Surr)	98		70 - 130			10/14/21 13:08	10/19/21 17:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 15:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 15:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 15:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/18/21 07:40	10/18/21 15:31	1
o-Terphenyl	123		70 - 130			10/18/21 07:40	10/18/21 15:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		4.97	mg/Kg			10/20/21 21:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1077

Lab Sample ID: 890-1410-69

Date Collected: 10/12/21 13:37

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:08	10/19/21 17:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:08	10/19/21 17:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:08	10/19/21 17:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:08	10/19/21 17:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:08	10/19/21 17:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:08	10/19/21 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/14/21 13:08	10/19/21 17:41	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/14/21 13:08	10/19/21 17:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 15:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 15:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	10/18/21 07:40	10/18/21 15:51	1
o-Terphenyl	117		70 - 130	10/18/21 07:40	10/18/21 15:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1290		4.99	mg/Kg			10/20/21 22:00	1

Client Sample ID: C-1078

Lab Sample ID: 890-1410-70

Date Collected: 10/12/21 13:38

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:08	10/19/21 18:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:08	10/19/21 18:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:08	10/19/21 18:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 13:08	10/19/21 18:01	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:08	10/19/21 18:01	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 13:08	10/19/21 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	10/14/21 13:08	10/19/21 18:01	1
1,4-Difluorobenzene (Surr)	114		70 - 130	10/14/21 13:08	10/19/21 18:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1078

Lab Sample ID: 890-1410-70

Date Collected: 10/12/21 13:38

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 16:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 16:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 16:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			10/18/21 07:40	10/18/21 16:11	1
o-Terphenyl	115		70 - 130			10/18/21 07:40	10/18/21 16:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	885		4.99	mg/Kg			10/19/21 00:24	1

Client Sample ID: C-1079

Lab Sample ID: 890-1410-71

Date Collected: 10/12/21 13:39

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 19:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 19:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 19:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:08	10/19/21 19:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 19:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:08	10/19/21 19:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			10/14/21 13:08	10/19/21 19:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/14/21 13:08	10/19/21 19:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.8		50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 18:54	1
Diesel Range Organics (Over C10-C28)	50.8		50.0	mg/Kg		10/18/21 07:40	10/18/21 18:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1079

Lab Sample ID: 890-1410-71

Date Collected: 10/12/21 13:39

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 18:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			10/18/21 07:40	10/18/21 18:54	1
o-Terphenyl	106		70 - 130			10/18/21 07:40	10/18/21 18:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3180		24.9	mg/Kg			10/19/21 00:29	5

Client Sample ID: C-1080

Lab Sample ID: 890-1410-72

Date Collected: 10/12/21 13:40

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 20:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 20:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 20:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 13:08	10/19/21 20:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 20:11	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 13:08	10/19/21 20:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			10/14/21 13:08	10/19/21 20:11	1
1,4-Difluorobenzene (Surr)	108		70 - 130			10/14/21 13:08	10/19/21 20:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 19:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 19:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 19:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/18/21 07:40	10/18/21 19:14	1
o-Terphenyl	102		70 - 130			10/18/21 07:40	10/18/21 19:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600		25.3	mg/Kg			10/19/21 00:35	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1081

Lab Sample ID: 890-1410-73

Date Collected: 10/12/21 13:41

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 20:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 20:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 20:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 13:08	10/19/21 20:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 20:32	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 13:08	10/19/21 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/14/21 13:08	10/19/21 20:32	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/14/21 13:08	10/19/21 20:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 19:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 19:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	10/18/21 07:40	10/18/21 19:34	1
o-Terphenyl	97		70 - 130	10/18/21 07:40	10/18/21 19:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	635		5.00	mg/Kg			10/19/21 00:41	1

Client Sample ID: C-1082

Lab Sample ID: 890-1410-74

Date Collected: 10/12/21 13:42

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:08	10/19/21 20:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:08	10/19/21 20:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:08	10/19/21 20:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 13:08	10/19/21 20:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 13:08	10/19/21 20:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 13:08	10/19/21 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/14/21 13:08	10/19/21 20:52	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/14/21 13:08	10/19/21 20:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1082

Lab Sample ID: 890-1410-74

Date Collected: 10/12/21 13:42

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 19:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 19:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 19:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			10/18/21 07:40	10/18/21 19:54	1
o-Terphenyl	106		70 - 130			10/18/21 07:40	10/18/21 19:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	953	F1	5.01	mg/Kg			10/19/21 00:46	1

Client Sample ID: C-1083

Lab Sample ID: 890-1410-75

Date Collected: 10/12/21 13:43

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 21:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 21:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 21:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:08	10/19/21 21:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 21:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:08	10/19/21 21:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/14/21 13:08	10/19/21 21:13	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/14/21 13:08	10/19/21 21:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 20:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 20:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1083

Lab Sample ID: 890-1410-75

Date Collected: 10/12/21 13:43

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 20:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			10/18/21 07:40	10/18/21 20:14	1
o-Terphenyl	90		70 - 130			10/18/21 07:40	10/18/21 20:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	391		4.97	mg/Kg			10/19/21 01:03	1

Client Sample ID: C-1084

Lab Sample ID: 890-1410-76

Date Collected: 10/12/21 13:44

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:08	10/19/21 21:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:08	10/19/21 21:33	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:08	10/19/21 21:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 13:08	10/19/21 21:33	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:08	10/19/21 21:33	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 13:08	10/19/21 21:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			10/14/21 13:08	10/19/21 21:33	1
1,4-Difluorobenzene (Surr)	101		70 - 130			10/14/21 13:08	10/19/21 21:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 20:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 20:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 20:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			10/18/21 07:40	10/18/21 20:34	1
o-Terphenyl	88		70 - 130			10/18/21 07:40	10/18/21 20:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	442		4.99	mg/Kg			10/19/21 01:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1085

Lab Sample ID: 890-1410-77

Date Collected: 10/12/21 13:45

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:08	10/19/21 21:53	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:08	10/19/21 21:53	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:08	10/19/21 21:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 13:08	10/19/21 21:53	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 13:08	10/19/21 21:53	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 13:08	10/19/21 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/14/21 13:08	10/19/21 21:53	1
1,4-Difluorobenzene (Surr)	95		70 - 130	10/14/21 13:08	10/19/21 21:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 20:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 20:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:40	10/18/21 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	10/18/21 07:40	10/18/21 20:54	1
o-Terphenyl	92		70 - 130	10/18/21 07:40	10/18/21 20:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		4.96	mg/Kg			10/19/21 01:25	1

Client Sample ID: C-1086

Lab Sample ID: 890-1410-78

Date Collected: 10/12/21 13:46

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 22:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 22:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 22:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 13:08	10/19/21 22:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 13:08	10/19/21 22:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 13:08	10/19/21 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	10/14/21 13:08	10/19/21 22:14	1
1,4-Difluorobenzene (Surr)	89		70 - 130	10/14/21 13:08	10/19/21 22:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1086

Lab Sample ID: 890-1410-78

Date Collected: 10/12/21 13:46

Matrix: Solid

Date Received: 10/12/21 15:41

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 21:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 21:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 21:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			10/18/21 07:40	10/18/21 21:14	1
o-Terphenyl	89		70 - 130			10/18/21 07:40	10/18/21 21:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	713		5.04	mg/Kg			10/19/21 01:31	1

Client Sample ID: C-1087

Lab Sample ID: 890-1410-79

Date Collected: 10/12/21 13:47

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 22:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 22:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 22:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:08	10/19/21 22:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 22:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:08	10/19/21 22:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/14/21 13:08	10/19/21 22:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/14/21 13:08	10/19/21 22:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 21:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 21:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1087

Lab Sample ID: 890-1410-79

Date Collected: 10/12/21 13:47

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:40	10/18/21 21:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			10/18/21 07:40	10/18/21 21:34	1
o-Terphenyl	97		70 - 130			10/18/21 07:40	10/18/21 21:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	832		4.97	mg/Kg			10/19/21 01:37	1

Client Sample ID: C-1088

Lab Sample ID: 890-1410-80

Date Collected: 10/12/21 13:48

Matrix: Solid

Date Received: 10/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:08	10/19/21 22:55	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:08	10/19/21 22:55	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:08	10/19/21 22:55	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/14/21 13:08	10/19/21 22:55	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/14/21 13:08	10/19/21 22:55	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/14/21 13:08	10/19/21 22:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/14/21 13:08	10/19/21 22:55	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/14/21 13:08	10/19/21 22:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/21/21 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 21:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 21:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 21:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			10/18/21 07:40	10/18/21 21:55	1
o-Terphenyl	93		70 - 130			10/18/21 07:40	10/18/21 21:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2860		25.2	mg/Kg			10/19/21 01:42	5

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-7020-A-1-E MS	Matrix Spike	177 S1+	50 S1-
880-7020-A-1-F MSD	Matrix Spike Duplicate	82	86
890-1410-1	C-1009	110	96
890-1410-1 MS	C-1009	93	109
890-1410-1 MSD	C-1009	97	111
890-1410-2	C-1010	96	102
890-1410-3	C-1011	108	107
890-1410-4	C-1012	113	109
890-1410-5	C-1013	107	73
890-1410-6	C-1014	98	108
890-1410-7	C-1015	116	109
890-1410-8	C-1016	111	108
890-1410-9	C-1017	110	108
890-1410-10	C-1018	122	106
890-1410-11	C-1019	124	100
890-1410-12	C-1020	99	91
890-1410-13	C-1021	112	108
890-1410-14	C-1022	95	87
890-1410-15	C-1023	103	96
890-1410-16	C-1024	97	109
890-1410-17	C-1025	100	110
890-1410-18	C-1026	97	107
890-1410-19	C-1027	119	111
890-1410-20	C-1028	92	107
890-1410-21	C-1029	99	105
890-1410-21 MS	C-1029	99	105
890-1410-21 MSD	C-1029	99	107
890-1410-22	C-1030	96	103
890-1410-23	C-1031	96	105
890-1410-24	C-1032	93	101
890-1410-25	C-1033	100	105
890-1410-26	C-1034	99	105
890-1410-27	C-1035	100	102
890-1410-28	C-1036	96	98
890-1410-29	C-1037	103	117
890-1410-30	C-1038	94	108
890-1410-31	C-1039	98	102
890-1410-32	C-1040	101	112
890-1410-33	C-1041	102	106
890-1410-34	C-1042	99	105
890-1410-35	C-1043	96	105
890-1410-36	C-1044	98	109
890-1410-37	C-1045	103	112
890-1410-38	C-1046	98	103
890-1410-39	C-1047	95	107
890-1410-40	C-1048	103	101
890-1410-41	C-1049	109	79
890-1410-42	C-1050	90	104
890-1410-43	C-1051	107	120

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1410-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1410-44	C-1052	91	88
890-1410-45	C-1053	88	94
890-1410-46	C-1054	112	88
890-1410-47	C-1055	105	82
890-1410-48	C-1056	97	91
890-1410-49	C-1057	114	79
890-1410-50	C-1058	96	94
890-1410-51	C-1059	339 S1+	77
890-1410-52	C-1060	101	97
890-1410-53	C-1061	95	67 S1-
890-1410-54	C-1062	152 S1+	108
890-1410-55	C-1063	138 S1+	107
890-1410-56	C-1064	110	99
890-1410-57	C-1065	103	124
890-1410-58	C-1066	96	114
890-1410-59	C-1067	163 S1+	114
890-1410-60	C-1068	108	107
890-1410-61	C-1069	97	106
890-1410-61 MS	C-1069	94	103
890-1410-61 MSD	C-1069	96	104
890-1410-62	C-1070	95	102
890-1410-63	C-1071	102	107
890-1410-64	C-1072	95	104
890-1410-65	C-1073	99	106
890-1410-66	C-1074	101	102
890-1410-67	C-1075	114	123
890-1410-68	C-1076	93	98
890-1410-69	C-1077	102	105
890-1410-70	C-1078	111	114
890-1410-71	C-1079	104	105
890-1410-72	C-1080	107	108
890-1410-73	C-1081	103	102
890-1410-74	C-1082	100	107
890-1410-75	C-1083	96	105
890-1410-76	C-1084	105	101
890-1410-77	C-1085	98	95
890-1410-78	C-1086	83	89
890-1410-79	C-1087	96	102
890-1410-80	C-1088	98	99
LCS 880-9470/1-A	Lab Control Sample	93	99
LCS 880-9471/1-A	Lab Control Sample	90	115
LCS 880-9472/1-A	Lab Control Sample	86	80
LCS 880-9473/1-A	Lab Control Sample	90	107
LCS 880-9474/1-A	Lab Control Sample	96	75
LCSD 880-9470/2-A	Lab Control Sample Dup	90	99
LCSD 880-9471/2-A	Lab Control Sample Dup	92	110
LCSD 880-9472/2-A	Lab Control Sample Dup	86	89
LCSD 880-9473/2-A	Lab Control Sample Dup	87	100
LCSD 880-9474/2-A	Lab Control Sample Dup	112	90
MB 880-9448/5-A	Method Blank	126	126

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1410-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
MB 880-9470/5-A	Method Blank	99	99
MB 880-9471/5-A	Method Blank	95	141 S1+
MB 880-9472/5-A	Method Blank	147 S1+	114
MB 880-9473/5-A	Method Blank	100	103
MB 880-9474/5-A	Method Blank	114	87
MB 880-9910/5-A	Method Blank	65 S1-	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
890-1410-41 MSD	C-1049		
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1410-1	C-1009	87	100
890-1410-1 MS	C-1009	96	102
890-1410-1 MSD	C-1009	96	102
890-1410-2	C-1010	90	102
890-1410-3	C-1011	87	101
890-1410-4	C-1012	87	100
890-1410-5	C-1013	90	103
890-1410-6	C-1014	89	103
890-1410-7	C-1015	88	102
890-1410-8	C-1016	93	107
890-1410-9	C-1017	92	106
890-1410-10	C-1018	91	104
890-1410-11	C-1019	105	121
890-1410-12	C-1020	91	104
890-1410-13	C-1021	92	106
890-1410-14	C-1022	91	105
890-1410-15	C-1023	89	103
890-1410-16	C-1024	92	106
890-1410-17	C-1025	89	102
890-1410-18	C-1026	91	105
890-1410-19	C-1027	92	105
890-1410-20	C-1028	92	105
890-1410-21	C-1029	98	106

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1410-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-1410-21 MS	C-1029	114	109
890-1410-21 MSD	C-1029	112	101
890-1410-22	C-1030	110	116
890-1410-23	C-1031	98	106
890-1410-24	C-1032	100	106
890-1410-25	C-1033	107	113
890-1410-26	C-1034	103	108
890-1410-27	C-1035	89	96
890-1410-28	C-1036	97	106
890-1410-29	C-1037	116	116
890-1410-30	C-1038	87	93
890-1410-31	C-1039	96	103
890-1410-32	C-1040	116	120
890-1410-33	C-1041	109	112
890-1410-34	C-1042	101	102
890-1410-35	C-1043	86	90
890-1410-36	C-1044	117	122
890-1410-37	C-1045	95	100
890-1410-38	C-1046	109	115
890-1410-39	C-1047	109	116
890-1410-40	C-1048	108	111
890-1410-41	C-1049	93	104
890-1410-41 MS	C-1049	105	105
890-1410-41 MSD	C-1049	102	101
890-1410-42	C-1050	95	104
890-1410-43	C-1051	94	105
890-1410-44	C-1052	93	104
890-1410-45	C-1053	94	101
890-1410-46	C-1054	103	112
890-1410-47	C-1055	95	103
890-1410-48	C-1056	96	0.1 S1-
890-1410-49	C-1057	98	109
890-1410-50	C-1058	94	104
890-1410-51	C-1059	94	0.3 S1-
890-1410-52	C-1060	92	100
890-1410-53	C-1061	97	107
890-1410-54	C-1062	92	100
890-1410-55	C-1063	93	102
890-1410-56	C-1064	97	107
890-1410-57	C-1065	98	107
890-1410-58	C-1066	97	107
890-1410-59	C-1067	94	102
890-1410-60	C-1068	103	112
890-1410-61	C-1069	84	95
890-1410-61 MS	C-1069	94	93
890-1410-61 MSD	C-1069	95	91
890-1410-62	C-1070	88	98
890-1410-63	C-1071	88	99
890-1410-64	C-1072	89	101
890-1410-65	C-1073	97	109

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1410-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1410-66	C-1074	90	104
890-1410-67	C-1075	93	109
890-1410-68	C-1076	101	123
890-1410-69	C-1077	100	117
890-1410-70	C-1078	100	115
890-1410-71	C-1079	95	106
890-1410-72	C-1080	93	102
890-1410-73	C-1081	90	97
890-1410-74	C-1082	95	106
890-1410-75	C-1083	84	90
890-1410-76	C-1084	82	88
890-1410-77	C-1085	87	92
890-1410-78	C-1086	85	89
890-1410-79	C-1087	86	97
890-1410-80	C-1088	88	93
LCS 880-9486/2-A	Lab Control Sample	83	92
LCS 880-9496/2-A	Lab Control Sample	121	114
LCS 880-9625/2-A	Lab Control Sample	92	94
LCS 880-9626/2-A	Lab Control Sample	104	105
LCSD 880-9486/3-A	Lab Control Sample Dup	84	93
LCSD 880-9625/3-A	Lab Control Sample Dup	94	97
LCSD 880-9626/3-A	Lab Control Sample Dup	93	89
MB 880-9486/1-A	Method Blank	92	108
MB 880-9496/1-A	Method Blank	107	118
MB 880-9625/1-A	Method Blank	105	121
MB 880-9626/1-A	Method Blank	88	100

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9448/5-A

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9448

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 16:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 16:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 16:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:28	10/17/21 16:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:28	10/17/21 16:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:28	10/17/21 16:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	10/14/21 10:28	10/17/21 16:14	1
1,4-Difluorobenzene (Surr)	126		70 - 130	10/14/21 10:28	10/17/21 16:14	1

Lab Sample ID: MB 880-9470/5-A

Matrix: Solid

Analysis Batch: 9845

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9470

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 02:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 02:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 02:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:01	10/20/21 02:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:01	10/20/21 02:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:01	10/20/21 02:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/14/21 13:01	10/20/21 02:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/14/21 13:01	10/20/21 02:03	1

Lab Sample ID: LCS 880-9470/1-A

Matrix: Solid

Analysis Batch: 9845

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1103		mg/Kg		110	70 - 130
Toluene	0.100	0.1166		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1210		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	0.200	0.2368		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1275		mg/Kg		127	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-9470/2-A

Matrix: Solid

Analysis Batch: 9845

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9470

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1063		mg/Kg		106	70 - 130	4	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-9470/2-A

Matrix: Solid

Analysis Batch: 9845

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9470

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.1102		mg/Kg		110	70 - 130	6	35
Ethylbenzene	0.100	0.1166		mg/Kg		117	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2281		mg/Kg		114	70 - 130	4	35
o-Xylene	0.100	0.1199		mg/Kg		120	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-1410-21 MS

Matrix: Solid

Analysis Batch: 9845

Client Sample ID: C-1029

Prep Type: Total/NA

Prep Batch: 9470

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U	0.0998	0.09281		mg/Kg		92	70 - 130
Toluene	<0.00202	U	0.0998	0.09925		mg/Kg		99	70 - 130
Ethylbenzene	<0.00202	U	0.0998	0.09901		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1945		mg/Kg		97	70 - 130
o-Xylene	<0.00202	U	0.0998	0.1039		mg/Kg		104	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-1410-21 MSD

Matrix: Solid

Analysis Batch: 9845

Client Sample ID: C-1029

Prep Type: Total/NA

Prep Batch: 9470

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08400		mg/Kg		83	70 - 130	10	35
Toluene	<0.00202	U	0.100	0.09201		mg/Kg		92	70 - 130	8	35
Ethylbenzene	<0.00202	U	0.100	0.09078		mg/Kg		91	70 - 130	9	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1805		mg/Kg		90	70 - 130	7	35
o-Xylene	<0.00202	U	0.100	0.09671		mg/Kg		97	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-9471/5-A

Matrix: Solid

Analysis Batch: 10194

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9471

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 10:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 10:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 10:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:03	10/23/21 10:03	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-9471/5-A

Matrix: Solid

Analysis Batch: 10194

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9471

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:03	10/23/21 10:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:03	10/23/21 10:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/14/21 13:03	10/23/21 10:03	1
1,4-Difluorobenzene (Surr)	141	S1+	70 - 130			10/14/21 13:03	10/23/21 10:03	1

Lab Sample ID: LCS 880-9471/1-A

Matrix: Solid

Analysis Batch: 10194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08611		mg/Kg		86	70 - 130
Toluene	0.100	0.08102		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.07736		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1520		mg/Kg		76	70 - 130
o-Xylene	0.100	0.07894		mg/Kg		79	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	90		70 - 130				
1,4-Difluorobenzene (Surr)	115		70 - 130				

Lab Sample ID: LCSD 880-9471/2-A

Matrix: Solid

Analysis Batch: 10194

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9471

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09110		mg/Kg		91	70 - 130	6	35
Toluene	0.100	0.08539		mg/Kg		85	70 - 130	5	35
Ethylbenzene	0.100	0.08062		mg/Kg		81	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1583		mg/Kg		79	70 - 130	4	35
o-Xylene	0.100	0.08272		mg/Kg		83	70 - 130	5	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	92		70 - 130						
1,4-Difluorobenzene (Surr)	110		70 - 130						

Lab Sample ID: 890-1410-1 MS

Matrix: Solid

Analysis Batch: 10194

Client Sample ID: C-1009

Prep Type: Total/NA

Prep Batch: 9471

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1	0.101	0.05965	F1	mg/Kg		59	70 - 130
Toluene	<0.00202	U F1	0.101	0.05935	F1	mg/Kg		59	70 - 130
Ethylbenzene	<0.00202	U F1	0.101	0.05940	F1	mg/Kg		59	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1	0.201	0.1278	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00202	U F2 F1	0.101	0.06584	F1	mg/Kg		65	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1410-1 MS

Matrix: Solid

Analysis Batch: 10194

Client Sample ID: C-1009

Prep Type: Total/NA

Prep Batch: 9471

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-1410-1 MSD

Matrix: Solid

Analysis Batch: 10194

Client Sample ID: C-1009

Prep Type: Total/NA

Prep Batch: 9471

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.101	0.06144	F1	mg/Kg		61	70 - 130	3	35
Toluene	<0.00202	U F1	0.101	0.06191	F1	mg/Kg		62	70 - 130	4	35
Ethylbenzene	<0.00202	U F1	0.101	0.06046	F1	mg/Kg		60	70 - 130	2	35
m-Xylene & p-Xylene	<0.00403	U F1	0.201	0.1305	F1	mg/Kg		65	70 - 130	2	35
o-Xylene	<0.00202	U F2 F1	0.101	0.03072	F2 F1	mg/Kg		31	70 - 130	73	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: MB 880-9472/5-A

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9472

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/18/21 21:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/18/21 21:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/18/21 21:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:05	10/18/21 21:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:05	10/18/21 21:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:05	10/18/21 21:59	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	10/14/21 13:05	10/18/21 21:59	1		
1,4-Difluorobenzene (Surr)	114		70 - 130	10/14/21 13:05	10/18/21 21:59	1		

Lab Sample ID: LCS 880-9472/1-A

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07901		mg/Kg		79	70 - 130
Toluene	0.100	0.09486		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.08686		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1593		mg/Kg		80	70 - 130
o-Xylene	0.100	0.07770		mg/Kg		78	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-9472/1-A

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9472

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: LCSD 880-9472/2-A

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9472

	LCS	LCS							%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.07865		mg/Kg		79	70 - 130	0	35		
Toluene	0.100	0.09310		mg/Kg		93	70 - 130	2	35		
Ethylbenzene	0.100	0.08665		mg/Kg		87	70 - 130	0	35		
m-Xylene & p-Xylene	0.200	0.1603		mg/Kg		80	70 - 130	1	35		
o-Xylene	0.100	0.07455		mg/Kg		75	70 - 130	4	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-1410-41 MSD

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: C-1049

Prep Type: Total/NA

Prep Batch: 9472

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.100	0.03885		mg/Kg					
Toluene	<0.00198	U	0.100	0.06990		mg/Kg					
Ethylbenzene	<0.00198	U	0.100	0.06033		mg/Kg					
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1120		mg/Kg					
o-Xylene	<0.00198	U	0.100	0.05441		mg/Kg					

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: MB 880-9473/5-A

Matrix: Solid

Analysis Batch: 9845

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9473

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 14:29	1		
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 14:29	1		
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 14:29	1		
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:08	10/19/21 14:29	1		
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:08	10/19/21 14:29	1		
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:08	10/19/21 14:29	1		

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
4-Bromofluorobenzene (Surr)	100		70 - 130	10/14/21 13:08	10/19/21 14:29	1				
1,4-Difluorobenzene (Surr)	103		70 - 130	10/14/21 13:08	10/19/21 14:29	1				

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-9473/1-A

Matrix: Solid

Analysis Batch: 9845

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1115		mg/Kg		111	70 - 130
Toluene	0.100	0.1161		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1152		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2262		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1202		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-9473/2-A

Matrix: Solid

Analysis Batch: 9845

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9473

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1102		mg/Kg		110	70 - 130	1	35
Toluene	0.100	0.1147		mg/Kg		115	70 - 130	1	35
Ethylbenzene	0.100	0.1218		mg/Kg		122	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2365		mg/Kg		118	70 - 130	4	35
o-Xylene	0.100	0.1245		mg/Kg		125	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-1410-61 MS

Matrix: Solid

Analysis Batch: 9845

Client Sample ID: C-1069

Prep Type: Total/NA

Prep Batch: 9473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0996	0.1000		mg/Kg		100	70 - 130
Toluene	<0.00199	U	0.0996	0.1048		mg/Kg		105	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1027		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2018		mg/Kg		101	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1056		mg/Kg		106	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1410-61 MSD

Matrix: Solid

Analysis Batch: 9845

Client Sample ID: C-1069

Prep Type: Total/NA

Prep Batch: 9473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09452		mg/Kg		95	70 - 130	6	35
Toluene	<0.00199	U	0.0990	0.1020		mg/Kg		103	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.0990	0.1029		mg/Kg		104	70 - 130	0	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1410-61 MSD

Matrix: Solid

Analysis Batch: 9845

Client Sample ID: C-1069

Prep Type: Total/NA

Prep Batch: 9473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1953		mg/Kg		99	70 - 130	3	35
o-Xylene	<0.00199	U	0.0990	0.1062		mg/Kg		107	70 - 130	1	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	96		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

Lab Sample ID: MB 880-9474/5-A

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9474

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:10	10/18/21 11:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:10	10/18/21 11:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:10	10/18/21 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 13:10	10/18/21 11:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 13:10	10/18/21 11:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 13:10	10/18/21 11:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			10/14/21 13:10	10/18/21 11:00	1
1,4-Difluorobenzene (Surr)	87		70 - 130			10/14/21 13:10	10/18/21 11:00	1

Lab Sample ID: LCS 880-9474/1-A

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9474

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Benzene	0.100	0.07020		mg/Kg		70	70 - 130	
Toluene	0.100	0.1055		mg/Kg		106	70 - 130	
Ethylbenzene	0.100	0.1179		mg/Kg		118	70 - 130	
m-Xylene & p-Xylene	0.200	0.2188		mg/Kg		109	70 - 130	
o-Xylene	0.100	0.09720		mg/Kg		97	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	96		70 - 130					
1,4-Difluorobenzene (Surr)	75		70 - 130					

Lab Sample ID: LCSD 880-9474/2-A

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9474

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08912		mg/Kg		89	70 - 130	24	35
Toluene	0.100	0.1232		mg/Kg		123	70 - 130	15	35
Ethylbenzene	0.100	0.1161		mg/Kg		116	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2239		mg/Kg		112	70 - 130	2	35
o-Xylene	0.100	0.1060		mg/Kg		106	70 - 130	9	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-7020-A-1-E MS

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9474

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U F2 F1	0.100	0.01121	F1	mg/Kg		11	70 - 130
Toluene	<0.00201	U F2 F1	0.100	0.006927	F1	mg/Kg		7	70 - 130
Ethylbenzene	<0.00201	U F2 F1	0.100	0.006741	F1	mg/Kg		7	70 - 130
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.200	0.02067	F1	mg/Kg		10	70 - 130
o-Xylene	<0.00201	U F2 F1	0.100	0.009134	F1	mg/Kg		9	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	177	S1+	70 - 130
1,4-Difluorobenzene (Surr)	50	S1-	70 - 130

Lab Sample ID: 880-7020-A-1-F MSD

Matrix: Solid

Analysis Batch: 9604

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9474

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00201	U F2 F1	0.101	0.04719	F2 F1	mg/Kg		47	70 - 130	123	35
Toluene	<0.00201	U F2 F1	0.101	0.06583	F2 F1	mg/Kg		65	70 - 130	162	35
Ethylbenzene	<0.00201	U F2 F1	0.101	0.06053	F2 F1	mg/Kg		60	70 - 130	160	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.201	0.1089	F2 F1	mg/Kg		54	70 - 130	136	35
o-Xylene	<0.00201	U F2 F1	0.101	0.05229	F2 F1	mg/Kg		52	70 - 130	141	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: MB 880-9910/5-A

Matrix: Solid

Analysis Batch: 10194

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9910

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:04	10/22/21 20:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:04	10/22/21 20:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:04	10/22/21 20:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/19/21 15:04	10/22/21 20:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:04	10/22/21 20:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/19/21 15:04	10/22/21 20:16	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130	10/19/21 15:04	10/22/21 20:16	1		
1,4-Difluorobenzene (Surr)	95		70 - 130	10/19/21 15:04	10/22/21 20:16	1		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-9486/1-A

Matrix: Solid

Analysis Batch: 9600

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9486

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 11:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 11:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 15:10	10/17/21 11:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			10/14/21 15:10	10/17/21 11:32	1
o-Terphenyl	108		70 - 130			10/14/21 15:10	10/17/21 11:32	1

Lab Sample ID: LCS 880-9486/2-A

Matrix: Solid

Analysis Batch: 9600

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	799.6		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	803.4		mg/Kg		80	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	83		70 - 130				
o-Terphenyl	92		70 - 130				

Lab Sample ID: LCSD 880-9486/3-A

Matrix: Solid

Analysis Batch: 9600

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9486

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	765.8		mg/Kg		77	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	817.0		mg/Kg		82	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	84		70 - 130						
o-Terphenyl	93		70 - 130						

Lab Sample ID: 890-1410-1 MS

Matrix: Solid

Analysis Batch: 9600

Client Sample ID: C-1009

Prep Type: Total/NA

Prep Batch: 9486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	871.9		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	890.9		mg/Kg		89	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1410-1 MS

Matrix: Solid

Analysis Batch: 9600

Client Sample ID: C-1009

Prep Type: Total/NA

Prep Batch: 9486

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 890-1410-1 MSD

Matrix: Solid

Analysis Batch: 9600

Client Sample ID: C-1009

Prep Type: Total/NA

Prep Batch: 9486

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	901.1		mg/Kg		90	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	900.1		mg/Kg		90	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: MB 880-9496/1-A

Matrix: Solid

Analysis Batch: 9602

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9496

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 11:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 11:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 15:23	10/17/21 11:32	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	107		70 - 130	10/14/21 15:23	10/17/21 11:32	1
o-Terphenyl	118		70 - 130	10/14/21 15:23	10/17/21 11:32	1

Lab Sample ID: LCS 880-9496/2-A

Matrix: Solid

Analysis Batch: 9602

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1078		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1244		mg/Kg		124	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	114		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1410-21 MS

Matrix: Solid

Analysis Batch: 9602

Client Sample ID: C-1029

Prep Type: Total/NA

Prep Batch: 9496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1036		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1172		mg/Kg		116	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: 890-1410-21 MSD

Matrix: Solid

Analysis Batch: 9602

Client Sample ID: C-1029

Prep Type: Total/NA

Prep Batch: 9496

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1080		mg/Kg		103	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1135		mg/Kg		111	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: MB 880-9625/1-A

Matrix: Solid

Analysis Batch: 9617

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9625

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 11:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 11:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:33	10/18/21 11:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/18/21 07:33	10/18/21 11:14	1
o-Terphenyl	121		70 - 130			10/18/21 07:33	10/18/21 11:14	1

Lab Sample ID: LCS 880-9625/2-A

Matrix: Solid

Analysis Batch: 9617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	933.3		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	854.0		mg/Kg		85	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-9625/2-A

Matrix: Solid

Analysis Batch: 9617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9625

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-9625/3-A

Matrix: Solid

Analysis Batch: 9617

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1027		mg/Kg		103	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	922.3		mg/Kg		92	70 - 130	8	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 890-1410-41 MS

Matrix: Solid

Analysis Batch: 9617

Client Sample ID: C-1049

Prep Type: Total/NA

Prep Batch: 9625

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1099		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	962.6		mg/Kg		93	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-1410-41 MSD

Matrix: Solid

Analysis Batch: 9617

Client Sample ID: C-1049

Prep Type: Total/NA

Prep Batch: 9625

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1105		mg/Kg		108	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	950.6		mg/Kg		92	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	101		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-9626/1-A

Matrix: Solid

Analysis Batch: 9619

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9626

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 11:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 11:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:40	10/18/21 11:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			10/18/21 07:40	10/18/21 11:14	1
o-Terphenyl	100		70 - 130			10/18/21 07:40	10/18/21 11:14	1

Lab Sample ID: LCS 880-9626/2-A

Matrix: Solid

Analysis Batch: 9619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	885.8		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	104		70 - 130				
o-Terphenyl	105		70 - 130				

Lab Sample ID: LCSD 880-9626/3-A

Matrix: Solid

Analysis Batch: 9619

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9626

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	803.6		mg/Kg		80	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	841.9		mg/Kg		84	70 - 130	18	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	89		70 - 130						

Lab Sample ID: 890-1410-61 MS

Matrix: Solid

Analysis Batch: 9619

Client Sample ID: C-1069

Prep Type: Total/NA

Prep Batch: 9626

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	862.6		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	837.2		mg/Kg		82	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1410-61 MS

Matrix: Solid

Analysis Batch: 9619

Client Sample ID: C-1069

Prep Type: Total/NA

Prep Batch: 9626

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-1410-61 MSD

Matrix: Solid

Analysis Batch: 9619

Client Sample ID: C-1069

Prep Type: Total/NA

Prep Batch: 9626

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	914.2		mg/Kg		89	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	837.9		mg/Kg		82	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9564/1-A

Matrix: Solid

Analysis Batch: 9793

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			10/18/21 19:54	1		

Lab Sample ID: LCS 880-9564/2-A

Matrix: Solid

Analysis Batch: 9793

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	245.2		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-9564/3-A

Matrix: Solid

Analysis Batch: 9793

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	246.1		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-1409-A-4-D MS

Matrix: Solid

Analysis Batch: 9793

Client Sample ID: Matrix Spike

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	487	F1	251	804.2	F1	mg/Kg		126	90 - 110	

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1409-A-4-E MSD

Matrix: Solid

Analysis Batch: 9793

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	487	F1	251	805.1	F1	mg/Kg		127	90 - 110	0	20

Lab Sample ID: MB 880-9566/1-A

Matrix: Solid

Analysis Batch: 9794

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/19/21 20:09	1

Lab Sample ID: LCS 880-9566/2-A

Matrix: Solid

Analysis Batch: 9794

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	243.0		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-9566/3-A

Matrix: Solid

Analysis Batch: 9794

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	242.7		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-1410-10 MS

Matrix: Solid

Analysis Batch: 9794

Client Sample ID: C-1018

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1670	F1	1240	3131	F1	mg/Kg		118	90 - 110

Lab Sample ID: 890-1410-10 MSD

Matrix: Solid

Analysis Batch: 9794

Client Sample ID: C-1018

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1670	F1	1240	3059	F1	mg/Kg		112	90 - 110	2	20

Lab Sample ID: 890-1410-20 MS

Matrix: Solid

Analysis Batch: 9794

Client Sample ID: C-1028

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2380	F1	1250	3853	F1	mg/Kg		117	90 - 110

Lab Sample ID: 890-1410-20 MSD

Matrix: Solid

Analysis Batch: 9794

Client Sample ID: C-1028

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2380	F1	1250	3752		mg/Kg		109	90 - 110	3	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9568/1-A

Matrix: Solid

Analysis Batch: 9795

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/19/21 23:09	1

Lab Sample ID: LCS 880-9568/2-A

Matrix: Solid

Analysis Batch: 9795

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-9568/3-A

Matrix: Solid

Analysis Batch: 9795

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	252.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1410-30 MS

Matrix: Solid

Analysis Batch: 9795

Client Sample ID: C-1038

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3440		1240	4682		mg/Kg		100	90 - 110

Lab Sample ID: 890-1410-30 MSD

Matrix: Solid

Analysis Batch: 9795

Client Sample ID: C-1038

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3440		1240	4693		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1410-40 MS

Matrix: Solid

Analysis Batch: 9795

Client Sample ID: C-1048

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	776	F1	251	991.3	F1	mg/Kg		86	90 - 110

Lab Sample ID: 890-1410-40 MSD

Matrix: Solid

Analysis Batch: 9795

Client Sample ID: C-1048

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	776	F1	251	994.4	F1	mg/Kg		87	90 - 110	0	20

Lab Sample ID: MB 880-9569/1-A

Matrix: Solid

Analysis Batch: 9797

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/20/21 18:24	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-9569/2-A

Matrix: Solid

Analysis Batch: 9797

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	229.9		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-9569/3-A

Matrix: Solid

Analysis Batch: 9797

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	244.7		mg/Kg		98	90 - 110	6	20

Lab Sample ID: 890-1410-50 MS

Matrix: Solid

Analysis Batch: 9797

Client Sample ID: C-1058

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	946	F1	248	1148	F1	mg/Kg		82	90 - 110

Lab Sample ID: 890-1410-50 MSD

Matrix: Solid

Analysis Batch: 9797

Client Sample ID: C-1058

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	946	F1	248	1115	F1	mg/Kg		68	90 - 110	3	20

Lab Sample ID: 890-1410-60 MS

Matrix: Solid

Analysis Batch: 9797

Client Sample ID: C-1068

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1930	F1	1250	3333	F1	mg/Kg		112	90 - 110

Lab Sample ID: 890-1410-60 MSD

Matrix: Solid

Analysis Batch: 9797

Client Sample ID: C-1068

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1930	F1	1250	3146		mg/Kg		97	90 - 110	6	20

Lab Sample ID: MB 880-9570/1-A

Matrix: Solid

Analysis Batch: 9806

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/18/21 23:11	1

Lab Sample ID: LCS 880-9570/2-A

Matrix: Solid

Analysis Batch: 9806

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	243.6		mg/Kg		97	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-9570/3-A

Matrix: Solid

Analysis Batch: 9806

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	244.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-1410-74 MS

Matrix: Solid

Analysis Batch: 9806

Client Sample ID: C-1082

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	953	F1	251	1168	F1	mg/Kg		86	90 - 110		

Lab Sample ID: 890-1410-74 MSD

Matrix: Solid

Analysis Batch: 9806

Client Sample ID: C-1082

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	953	F1	251	1170	F1	mg/Kg		86	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC VOA

Prep Batch: 9448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9448/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 9470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-21	C-1029	Total/NA	Solid	5035	
890-1410-22	C-1030	Total/NA	Solid	5035	
890-1410-23	C-1031	Total/NA	Solid	5035	
890-1410-24	C-1032	Total/NA	Solid	5035	
890-1410-25	C-1033	Total/NA	Solid	5035	
890-1410-26	C-1034	Total/NA	Solid	5035	
890-1410-27	C-1035	Total/NA	Solid	5035	
890-1410-28	C-1036	Total/NA	Solid	5035	
890-1410-29	C-1037	Total/NA	Solid	5035	
890-1410-30	C-1038	Total/NA	Solid	5035	
890-1410-31	C-1039	Total/NA	Solid	5035	
890-1410-32	C-1040	Total/NA	Solid	5035	
890-1410-33	C-1041	Total/NA	Solid	5035	
890-1410-34	C-1042	Total/NA	Solid	5035	
890-1410-35	C-1043	Total/NA	Solid	5035	
890-1410-36	C-1044	Total/NA	Solid	5035	
890-1410-37	C-1045	Total/NA	Solid	5035	
890-1410-38	C-1046	Total/NA	Solid	5035	
890-1410-39	C-1047	Total/NA	Solid	5035	
890-1410-40	C-1048	Total/NA	Solid	5035	
MB 880-9470/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9470/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9470/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1410-21 MS	C-1029	Total/NA	Solid	5035	
890-1410-21 MSD	C-1029	Total/NA	Solid	5035	

Prep Batch: 9471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-1	C-1009	Total/NA	Solid	5035	
890-1410-2	C-1010	Total/NA	Solid	5035	
890-1410-3	C-1011	Total/NA	Solid	5035	
890-1410-4	C-1012	Total/NA	Solid	5035	
890-1410-5	C-1013	Total/NA	Solid	5035	
890-1410-6	C-1014	Total/NA	Solid	5035	
890-1410-7	C-1015	Total/NA	Solid	5035	
890-1410-8	C-1016	Total/NA	Solid	5035	
890-1410-9	C-1017	Total/NA	Solid	5035	
890-1410-10	C-1018	Total/NA	Solid	5035	
890-1410-11	C-1019	Total/NA	Solid	5035	
890-1410-12	C-1020	Total/NA	Solid	5035	
890-1410-13	C-1021	Total/NA	Solid	5035	
890-1410-14	C-1022	Total/NA	Solid	5035	
890-1410-15	C-1023	Total/NA	Solid	5035	
890-1410-16	C-1024	Total/NA	Solid	5035	
890-1410-17	C-1025	Total/NA	Solid	5035	
890-1410-18	C-1026	Total/NA	Solid	5035	
890-1410-19	C-1027	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 9471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-20	C-1028	Total/NA	Solid	5035	
MB 880-9471/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9471/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9471/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1410-1 MS	C-1009	Total/NA	Solid	5035	
890-1410-1 MSD	C-1009	Total/NA	Solid	5035	

Prep Batch: 9472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-41	C-1049	Total/NA	Solid	5035	
890-1410-42	C-1050	Total/NA	Solid	5035	
890-1410-43	C-1051	Total/NA	Solid	5035	
890-1410-44	C-1052	Total/NA	Solid	5035	
890-1410-45	C-1053	Total/NA	Solid	5035	
890-1410-46	C-1054	Total/NA	Solid	5035	
890-1410-47	C-1055	Total/NA	Solid	5035	
890-1410-48	C-1056	Total/NA	Solid	5035	
890-1410-49	C-1057	Total/NA	Solid	5035	
890-1410-50	C-1058	Total/NA	Solid	5035	
890-1410-51	C-1059	Total/NA	Solid	5035	
890-1410-52	C-1060	Total/NA	Solid	5035	
890-1410-53	C-1061	Total/NA	Solid	5035	
890-1410-54	C-1062	Total/NA	Solid	5035	
890-1410-55	C-1063	Total/NA	Solid	5035	
890-1410-56	C-1064	Total/NA	Solid	5035	
890-1410-57	C-1065	Total/NA	Solid	5035	
890-1410-58	C-1066	Total/NA	Solid	5035	
890-1410-59	C-1067	Total/NA	Solid	5035	
890-1410-60	C-1068	Total/NA	Solid	5035	
MB 880-9472/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9472/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9472/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1410-41 MSD	C-1049	Total/NA	Solid	5035	

Prep Batch: 9473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-61	C-1069	Total/NA	Solid	5035	
890-1410-62	C-1070	Total/NA	Solid	5035	
890-1410-63	C-1071	Total/NA	Solid	5035	
890-1410-64	C-1072	Total/NA	Solid	5035	
890-1410-65	C-1073	Total/NA	Solid	5035	
890-1410-66	C-1074	Total/NA	Solid	5035	
890-1410-67	C-1075	Total/NA	Solid	5035	
890-1410-68	C-1076	Total/NA	Solid	5035	
890-1410-69	C-1077	Total/NA	Solid	5035	
890-1410-70	C-1078	Total/NA	Solid	5035	
890-1410-71	C-1079	Total/NA	Solid	5035	
890-1410-72	C-1080	Total/NA	Solid	5035	
890-1410-73	C-1081	Total/NA	Solid	5035	
890-1410-74	C-1082	Total/NA	Solid	5035	
890-1410-75	C-1083	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 9473 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-76	C-1084	Total/NA	Solid	5035	
890-1410-77	C-1085	Total/NA	Solid	5035	
890-1410-78	C-1086	Total/NA	Solid	5035	
890-1410-79	C-1087	Total/NA	Solid	5035	
890-1410-80	C-1088	Total/NA	Solid	5035	
MB 880-9473/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9473/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9473/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1410-61 MS	C-1069	Total/NA	Solid	5035	
890-1410-61 MSD	C-1069	Total/NA	Solid	5035	

Prep Batch: 9474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9474/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9474/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9474/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7020-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-7020-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 9604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-41	C-1049	Total/NA	Solid	8021B	9472
890-1410-42	C-1050	Total/NA	Solid	8021B	9472
890-1410-43	C-1051	Total/NA	Solid	8021B	9472
890-1410-44	C-1052	Total/NA	Solid	8021B	9472
890-1410-45	C-1053	Total/NA	Solid	8021B	9472
890-1410-46	C-1054	Total/NA	Solid	8021B	9472
890-1410-47	C-1055	Total/NA	Solid	8021B	9472
890-1410-48	C-1056	Total/NA	Solid	8021B	9472
890-1410-49	C-1057	Total/NA	Solid	8021B	9472
890-1410-50	C-1058	Total/NA	Solid	8021B	9472
890-1410-51	C-1059	Total/NA	Solid	8021B	9472
890-1410-52	C-1060	Total/NA	Solid	8021B	9472
890-1410-53	C-1061	Total/NA	Solid	8021B	9472
890-1410-54	C-1062	Total/NA	Solid	8021B	9472
890-1410-55	C-1063	Total/NA	Solid	8021B	9472
890-1410-56	C-1064	Total/NA	Solid	8021B	9472
890-1410-57	C-1065	Total/NA	Solid	8021B	9472
890-1410-58	C-1066	Total/NA	Solid	8021B	9472
890-1410-59	C-1067	Total/NA	Solid	8021B	9472
890-1410-60	C-1068	Total/NA	Solid	8021B	9472
MB 880-9448/5-A	Method Blank	Total/NA	Solid	8021B	9448
MB 880-9472/5-A	Method Blank	Total/NA	Solid	8021B	9472
MB 880-9474/5-A	Method Blank	Total/NA	Solid	8021B	9474
LCS 880-9472/1-A	Lab Control Sample	Total/NA	Solid	8021B	9472
LCS 880-9474/1-A	Lab Control Sample	Total/NA	Solid	8021B	9474
LCSD 880-9472/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9472
LCSD 880-9474/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9474
880-7020-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	9474
880-7020-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9474
890-1410-41 MSD	C-1049	Total/NA	Solid	8021B	9472

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC VOA

Analysis Batch: 9845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-21	C-1029	Total/NA	Solid	8021B	9470
890-1410-22	C-1030	Total/NA	Solid	8021B	9470
890-1410-23	C-1031	Total/NA	Solid	8021B	9470
890-1410-24	C-1032	Total/NA	Solid	8021B	9470
890-1410-25	C-1033	Total/NA	Solid	8021B	9470
890-1410-26	C-1034	Total/NA	Solid	8021B	9470
890-1410-27	C-1035	Total/NA	Solid	8021B	9470
890-1410-28	C-1036	Total/NA	Solid	8021B	9470
890-1410-29	C-1037	Total/NA	Solid	8021B	9470
890-1410-30	C-1038	Total/NA	Solid	8021B	9470
890-1410-31	C-1039	Total/NA	Solid	8021B	9470
890-1410-32	C-1040	Total/NA	Solid	8021B	9470
890-1410-33	C-1041	Total/NA	Solid	8021B	9470
890-1410-34	C-1042	Total/NA	Solid	8021B	9470
890-1410-35	C-1043	Total/NA	Solid	8021B	9470
890-1410-36	C-1044	Total/NA	Solid	8021B	9470
890-1410-37	C-1045	Total/NA	Solid	8021B	9470
890-1410-38	C-1046	Total/NA	Solid	8021B	9470
890-1410-39	C-1047	Total/NA	Solid	8021B	9470
890-1410-40	C-1048	Total/NA	Solid	8021B	9470
890-1410-61	C-1069	Total/NA	Solid	8021B	9473
890-1410-62	C-1070	Total/NA	Solid	8021B	9473
890-1410-63	C-1071	Total/NA	Solid	8021B	9473
890-1410-64	C-1072	Total/NA	Solid	8021B	9473
890-1410-65	C-1073	Total/NA	Solid	8021B	9473
890-1410-66	C-1074	Total/NA	Solid	8021B	9473
890-1410-67	C-1075	Total/NA	Solid	8021B	9473
890-1410-68	C-1076	Total/NA	Solid	8021B	9473
890-1410-69	C-1077	Total/NA	Solid	8021B	9473
890-1410-70	C-1078	Total/NA	Solid	8021B	9473
890-1410-71	C-1079	Total/NA	Solid	8021B	9473
890-1410-72	C-1080	Total/NA	Solid	8021B	9473
890-1410-73	C-1081	Total/NA	Solid	8021B	9473
890-1410-74	C-1082	Total/NA	Solid	8021B	9473
890-1410-75	C-1083	Total/NA	Solid	8021B	9473
890-1410-76	C-1084	Total/NA	Solid	8021B	9473
890-1410-77	C-1085	Total/NA	Solid	8021B	9473
890-1410-78	C-1086	Total/NA	Solid	8021B	9473
890-1410-79	C-1087	Total/NA	Solid	8021B	9473
890-1410-80	C-1088	Total/NA	Solid	8021B	9473
MB 880-9470/5-A	Method Blank	Total/NA	Solid	8021B	9470
MB 880-9473/5-A	Method Blank	Total/NA	Solid	8021B	9473
LCS 880-9470/1-A	Lab Control Sample	Total/NA	Solid	8021B	9470
LCS 880-9473/1-A	Lab Control Sample	Total/NA	Solid	8021B	9473
LCSD 880-9470/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9470
LCSD 880-9473/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9473
890-1410-21 MS	C-1029	Total/NA	Solid	8021B	9470
890-1410-21 MSD	C-1029	Total/NA	Solid	8021B	9470
890-1410-61 MS	C-1069	Total/NA	Solid	8021B	9473
890-1410-61 MSD	C-1069	Total/NA	Solid	8021B	9473

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC VOA

Prep Batch: 9910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9910/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 10147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-1	C-1009	Total/NA	Solid	Total BTEX	
890-1410-2	C-1010	Total/NA	Solid	Total BTEX	
890-1410-3	C-1011	Total/NA	Solid	Total BTEX	
890-1410-4	C-1012	Total/NA	Solid	Total BTEX	
890-1410-5	C-1013	Total/NA	Solid	Total BTEX	
890-1410-6	C-1014	Total/NA	Solid	Total BTEX	
890-1410-7	C-1015	Total/NA	Solid	Total BTEX	
890-1410-8	C-1016	Total/NA	Solid	Total BTEX	
890-1410-9	C-1017	Total/NA	Solid	Total BTEX	
890-1410-10	C-1018	Total/NA	Solid	Total BTEX	
890-1410-11	C-1019	Total/NA	Solid	Total BTEX	
890-1410-12	C-1020	Total/NA	Solid	Total BTEX	
890-1410-13	C-1021	Total/NA	Solid	Total BTEX	
890-1410-14	C-1022	Total/NA	Solid	Total BTEX	
890-1410-15	C-1023	Total/NA	Solid	Total BTEX	
890-1410-16	C-1024	Total/NA	Solid	Total BTEX	
890-1410-17	C-1025	Total/NA	Solid	Total BTEX	
890-1410-18	C-1026	Total/NA	Solid	Total BTEX	
890-1410-19	C-1027	Total/NA	Solid	Total BTEX	
890-1410-20	C-1028	Total/NA	Solid	Total BTEX	
890-1410-21	C-1029	Total/NA	Solid	Total BTEX	
890-1410-22	C-1030	Total/NA	Solid	Total BTEX	
890-1410-23	C-1031	Total/NA	Solid	Total BTEX	
890-1410-24	C-1032	Total/NA	Solid	Total BTEX	
890-1410-25	C-1033	Total/NA	Solid	Total BTEX	
890-1410-26	C-1034	Total/NA	Solid	Total BTEX	
890-1410-27	C-1035	Total/NA	Solid	Total BTEX	
890-1410-28	C-1036	Total/NA	Solid	Total BTEX	
890-1410-29	C-1037	Total/NA	Solid	Total BTEX	
890-1410-30	C-1038	Total/NA	Solid	Total BTEX	
890-1410-31	C-1039	Total/NA	Solid	Total BTEX	
890-1410-32	C-1040	Total/NA	Solid	Total BTEX	
890-1410-33	C-1041	Total/NA	Solid	Total BTEX	
890-1410-34	C-1042	Total/NA	Solid	Total BTEX	
890-1410-35	C-1043	Total/NA	Solid	Total BTEX	
890-1410-36	C-1044	Total/NA	Solid	Total BTEX	
890-1410-37	C-1045	Total/NA	Solid	Total BTEX	
890-1410-38	C-1046	Total/NA	Solid	Total BTEX	
890-1410-39	C-1047	Total/NA	Solid	Total BTEX	
890-1410-40	C-1048	Total/NA	Solid	Total BTEX	
890-1410-41	C-1049	Total/NA	Solid	Total BTEX	
890-1410-42	C-1050	Total/NA	Solid	Total BTEX	
890-1410-43	C-1051	Total/NA	Solid	Total BTEX	
890-1410-44	C-1052	Total/NA	Solid	Total BTEX	
890-1410-45	C-1053	Total/NA	Solid	Total BTEX	
890-1410-46	C-1054	Total/NA	Solid	Total BTEX	
890-1410-47	C-1055	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 10147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-48	C-1056	Total/NA	Solid	Total BTEX	
890-1410-49	C-1057	Total/NA	Solid	Total BTEX	
890-1410-50	C-1058	Total/NA	Solid	Total BTEX	
890-1410-51	C-1059	Total/NA	Solid	Total BTEX	
890-1410-52	C-1060	Total/NA	Solid	Total BTEX	
890-1410-53	C-1061	Total/NA	Solid	Total BTEX	
890-1410-54	C-1062	Total/NA	Solid	Total BTEX	
890-1410-55	C-1063	Total/NA	Solid	Total BTEX	
890-1410-56	C-1064	Total/NA	Solid	Total BTEX	
890-1410-57	C-1065	Total/NA	Solid	Total BTEX	
890-1410-58	C-1066	Total/NA	Solid	Total BTEX	
890-1410-59	C-1067	Total/NA	Solid	Total BTEX	
890-1410-60	C-1068	Total/NA	Solid	Total BTEX	
890-1410-61	C-1069	Total/NA	Solid	Total BTEX	
890-1410-62	C-1070	Total/NA	Solid	Total BTEX	
890-1410-63	C-1071	Total/NA	Solid	Total BTEX	
890-1410-64	C-1072	Total/NA	Solid	Total BTEX	
890-1410-65	C-1073	Total/NA	Solid	Total BTEX	
890-1410-66	C-1074	Total/NA	Solid	Total BTEX	
890-1410-67	C-1075	Total/NA	Solid	Total BTEX	
890-1410-68	C-1076	Total/NA	Solid	Total BTEX	
890-1410-69	C-1077	Total/NA	Solid	Total BTEX	
890-1410-70	C-1078	Total/NA	Solid	Total BTEX	
890-1410-71	C-1079	Total/NA	Solid	Total BTEX	
890-1410-72	C-1080	Total/NA	Solid	Total BTEX	
890-1410-73	C-1081	Total/NA	Solid	Total BTEX	
890-1410-74	C-1082	Total/NA	Solid	Total BTEX	
890-1410-75	C-1083	Total/NA	Solid	Total BTEX	
890-1410-76	C-1084	Total/NA	Solid	Total BTEX	
890-1410-77	C-1085	Total/NA	Solid	Total BTEX	
890-1410-78	C-1086	Total/NA	Solid	Total BTEX	
890-1410-79	C-1087	Total/NA	Solid	Total BTEX	
890-1410-80	C-1088	Total/NA	Solid	Total BTEX	

Analysis Batch: 10194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-1	C-1009	Total/NA	Solid	8021B	9471
890-1410-2	C-1010	Total/NA	Solid	8021B	9471
890-1410-3	C-1011	Total/NA	Solid	8021B	9471
890-1410-4	C-1012	Total/NA	Solid	8021B	9471
890-1410-5	C-1013	Total/NA	Solid	8021B	9471
890-1410-6	C-1014	Total/NA	Solid	8021B	9471
890-1410-7	C-1015	Total/NA	Solid	8021B	9471
890-1410-8	C-1016	Total/NA	Solid	8021B	9471
890-1410-9	C-1017	Total/NA	Solid	8021B	9471
890-1410-10	C-1018	Total/NA	Solid	8021B	9471
890-1410-11	C-1019	Total/NA	Solid	8021B	9471
890-1410-12	C-1020	Total/NA	Solid	8021B	9471
890-1410-13	C-1021	Total/NA	Solid	8021B	9471
890-1410-14	C-1022	Total/NA	Solid	8021B	9471
890-1410-15	C-1023	Total/NA	Solid	8021B	9471

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 10194 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-16	C-1024	Total/NA	Solid	8021B	9471
890-1410-17	C-1025	Total/NA	Solid	8021B	9471
890-1410-18	C-1026	Total/NA	Solid	8021B	9471
890-1410-19	C-1027	Total/NA	Solid	8021B	9471
890-1410-20	C-1028	Total/NA	Solid	8021B	9471
MB 880-9471/5-A	Method Blank	Total/NA	Solid	8021B	9471
MB 880-9910/5-A	Method Blank	Total/NA	Solid	8021B	9910
LCS 880-9471/1-A	Lab Control Sample	Total/NA	Solid	8021B	9471
LCSD 880-9471/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9471
890-1410-1 MS	C-1009	Total/NA	Solid	8021B	9471
890-1410-1 MSD	C-1009	Total/NA	Solid	8021B	9471

GC Semi VOA

Prep Batch: 9486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-1	C-1009	Total/NA	Solid	8015NM Prep	
890-1410-2	C-1010	Total/NA	Solid	8015NM Prep	
890-1410-3	C-1011	Total/NA	Solid	8015NM Prep	
890-1410-4	C-1012	Total/NA	Solid	8015NM Prep	
890-1410-5	C-1013	Total/NA	Solid	8015NM Prep	
890-1410-6	C-1014	Total/NA	Solid	8015NM Prep	
890-1410-7	C-1015	Total/NA	Solid	8015NM Prep	
890-1410-8	C-1016	Total/NA	Solid	8015NM Prep	
890-1410-9	C-1017	Total/NA	Solid	8015NM Prep	
890-1410-10	C-1018	Total/NA	Solid	8015NM Prep	
890-1410-11	C-1019	Total/NA	Solid	8015NM Prep	
890-1410-12	C-1020	Total/NA	Solid	8015NM Prep	
890-1410-13	C-1021	Total/NA	Solid	8015NM Prep	
890-1410-14	C-1022	Total/NA	Solid	8015NM Prep	
890-1410-15	C-1023	Total/NA	Solid	8015NM Prep	
890-1410-16	C-1024	Total/NA	Solid	8015NM Prep	
890-1410-17	C-1025	Total/NA	Solid	8015NM Prep	
890-1410-18	C-1026	Total/NA	Solid	8015NM Prep	
890-1410-19	C-1027	Total/NA	Solid	8015NM Prep	
890-1410-20	C-1028	Total/NA	Solid	8015NM Prep	
MB 880-9486/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9486/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9486/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1410-1 MS	C-1009	Total/NA	Solid	8015NM Prep	
890-1410-1 MSD	C-1009	Total/NA	Solid	8015NM Prep	

Prep Batch: 9496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-21	C-1029	Total/NA	Solid	8015NM Prep	
890-1410-22	C-1030	Total/NA	Solid	8015NM Prep	
890-1410-23	C-1031	Total/NA	Solid	8015NM Prep	
890-1410-24	C-1032	Total/NA	Solid	8015NM Prep	
890-1410-25	C-1033	Total/NA	Solid	8015NM Prep	
890-1410-26	C-1034	Total/NA	Solid	8015NM Prep	
890-1410-27	C-1035	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 9496 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-28	C-1036	Total/NA	Solid	8015NM Prep	
890-1410-29	C-1037	Total/NA	Solid	8015NM Prep	
890-1410-30	C-1038	Total/NA	Solid	8015NM Prep	
890-1410-31	C-1039	Total/NA	Solid	8015NM Prep	
890-1410-32	C-1040	Total/NA	Solid	8015NM Prep	
890-1410-33	C-1041	Total/NA	Solid	8015NM Prep	
890-1410-34	C-1042	Total/NA	Solid	8015NM Prep	
890-1410-35	C-1043	Total/NA	Solid	8015NM Prep	
890-1410-36	C-1044	Total/NA	Solid	8015NM Prep	
890-1410-37	C-1045	Total/NA	Solid	8015NM Prep	
890-1410-38	C-1046	Total/NA	Solid	8015NM Prep	
890-1410-39	C-1047	Total/NA	Solid	8015NM Prep	
890-1410-40	C-1048	Total/NA	Solid	8015NM Prep	
MB 880-9496/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9496/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
890-1410-21 MS	C-1029	Total/NA	Solid	8015NM Prep	
890-1410-21 MSD	C-1029	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-1	C-1009	Total/NA	Solid	8015B NM	9486
890-1410-2	C-1010	Total/NA	Solid	8015B NM	9486
890-1410-3	C-1011	Total/NA	Solid	8015B NM	9486
890-1410-4	C-1012	Total/NA	Solid	8015B NM	9486
890-1410-5	C-1013	Total/NA	Solid	8015B NM	9486
890-1410-6	C-1014	Total/NA	Solid	8015B NM	9486
890-1410-7	C-1015	Total/NA	Solid	8015B NM	9486
890-1410-8	C-1016	Total/NA	Solid	8015B NM	9486
890-1410-9	C-1017	Total/NA	Solid	8015B NM	9486
890-1410-10	C-1018	Total/NA	Solid	8015B NM	9486
890-1410-11	C-1019	Total/NA	Solid	8015B NM	9486
890-1410-12	C-1020	Total/NA	Solid	8015B NM	9486
890-1410-13	C-1021	Total/NA	Solid	8015B NM	9486
890-1410-14	C-1022	Total/NA	Solid	8015B NM	9486
890-1410-15	C-1023	Total/NA	Solid	8015B NM	9486
890-1410-16	C-1024	Total/NA	Solid	8015B NM	9486
890-1410-17	C-1025	Total/NA	Solid	8015B NM	9486
890-1410-18	C-1026	Total/NA	Solid	8015B NM	9486
890-1410-19	C-1027	Total/NA	Solid	8015B NM	9486
890-1410-20	C-1028	Total/NA	Solid	8015B NM	9486
MB 880-9486/1-A	Method Blank	Total/NA	Solid	8015B NM	9486
LCS 880-9486/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9486
LCSD 880-9486/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9486
890-1410-1 MS	C-1009	Total/NA	Solid	8015B NM	9486
890-1410-1 MSD	C-1009	Total/NA	Solid	8015B NM	9486

Analysis Batch: 9602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-21	C-1029	Total/NA	Solid	8015B NM	9496
890-1410-22	C-1030	Total/NA	Solid	8015B NM	9496
890-1410-23	C-1031	Total/NA	Solid	8015B NM	9496

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 9602 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-24	C-1032	Total/NA	Solid	8015B NM	9496
890-1410-25	C-1033	Total/NA	Solid	8015B NM	9496
890-1410-26	C-1034	Total/NA	Solid	8015B NM	9496
890-1410-27	C-1035	Total/NA	Solid	8015B NM	9496
890-1410-28	C-1036	Total/NA	Solid	8015B NM	9496
890-1410-29	C-1037	Total/NA	Solid	8015B NM	9496
890-1410-30	C-1038	Total/NA	Solid	8015B NM	9496
890-1410-31	C-1039	Total/NA	Solid	8015B NM	9496
890-1410-32	C-1040	Total/NA	Solid	8015B NM	9496
890-1410-33	C-1041	Total/NA	Solid	8015B NM	9496
890-1410-34	C-1042	Total/NA	Solid	8015B NM	9496
890-1410-35	C-1043	Total/NA	Solid	8015B NM	9496
890-1410-36	C-1044	Total/NA	Solid	8015B NM	9496
890-1410-37	C-1045	Total/NA	Solid	8015B NM	9496
890-1410-38	C-1046	Total/NA	Solid	8015B NM	9496
890-1410-39	C-1047	Total/NA	Solid	8015B NM	9496
890-1410-40	C-1048	Total/NA	Solid	8015B NM	9496
MB 880-9496/1-A	Method Blank	Total/NA	Solid	8015B NM	9496
LCS 880-9496/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9496
890-1410-21 MS	C-1029	Total/NA	Solid	8015B NM	9496
890-1410-21 MSD	C-1029	Total/NA	Solid	8015B NM	9496

Analysis Batch: 9617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-41	C-1049	Total/NA	Solid	8015B NM	9625
890-1410-42	C-1050	Total/NA	Solid	8015B NM	9625
890-1410-43	C-1051	Total/NA	Solid	8015B NM	9625
890-1410-44	C-1052	Total/NA	Solid	8015B NM	9625
890-1410-45	C-1053	Total/NA	Solid	8015B NM	9625
890-1410-46	C-1054	Total/NA	Solid	8015B NM	9625
890-1410-47	C-1055	Total/NA	Solid	8015B NM	9625
890-1410-48	C-1056	Total/NA	Solid	8015B NM	9625
890-1410-49	C-1057	Total/NA	Solid	8015B NM	9625
890-1410-50	C-1058	Total/NA	Solid	8015B NM	9625
890-1410-51	C-1059	Total/NA	Solid	8015B NM	9625
890-1410-52	C-1060	Total/NA	Solid	8015B NM	9625
890-1410-53	C-1061	Total/NA	Solid	8015B NM	9625
890-1410-54	C-1062	Total/NA	Solid	8015B NM	9625
890-1410-55	C-1063	Total/NA	Solid	8015B NM	9625
890-1410-56	C-1064	Total/NA	Solid	8015B NM	9625
890-1410-57	C-1065	Total/NA	Solid	8015B NM	9625
890-1410-58	C-1066	Total/NA	Solid	8015B NM	9625
890-1410-59	C-1067	Total/NA	Solid	8015B NM	9625
890-1410-60	C-1068	Total/NA	Solid	8015B NM	9625
MB 880-9625/1-A	Method Blank	Total/NA	Solid	8015B NM	9625
LCS 880-9625/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9625
LCSD 880-9625/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9625
890-1410-41 MS	C-1049	Total/NA	Solid	8015B NM	9625
890-1410-41 MSD	C-1049	Total/NA	Solid	8015B NM	9625

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 9619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-61	C-1069	Total/NA	Solid	8015B NM	9626
890-1410-62	C-1070	Total/NA	Solid	8015B NM	9626
890-1410-63	C-1071	Total/NA	Solid	8015B NM	9626
890-1410-64	C-1072	Total/NA	Solid	8015B NM	9626
890-1410-65	C-1073	Total/NA	Solid	8015B NM	9626
890-1410-66	C-1074	Total/NA	Solid	8015B NM	9626
890-1410-67	C-1075	Total/NA	Solid	8015B NM	9626
890-1410-68	C-1076	Total/NA	Solid	8015B NM	9626
890-1410-69	C-1077	Total/NA	Solid	8015B NM	9626
890-1410-70	C-1078	Total/NA	Solid	8015B NM	9626
890-1410-71	C-1079	Total/NA	Solid	8015B NM	9626
890-1410-72	C-1080	Total/NA	Solid	8015B NM	9626
890-1410-73	C-1081	Total/NA	Solid	8015B NM	9626
890-1410-74	C-1082	Total/NA	Solid	8015B NM	9626
890-1410-75	C-1083	Total/NA	Solid	8015B NM	9626
890-1410-76	C-1084	Total/NA	Solid	8015B NM	9626
890-1410-77	C-1085	Total/NA	Solid	8015B NM	9626
890-1410-78	C-1086	Total/NA	Solid	8015B NM	9626
890-1410-79	C-1087	Total/NA	Solid	8015B NM	9626
890-1410-80	C-1088	Total/NA	Solid	8015B NM	9626
MB 880-9626/1-A	Method Blank	Total/NA	Solid	8015B NM	9626
LCS 880-9626/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9626
LCSD 880-9626/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9626
890-1410-61 MS	C-1069	Total/NA	Solid	8015B NM	9626
890-1410-61 MSD	C-1069	Total/NA	Solid	8015B NM	9626

Prep Batch: 9625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-41	C-1049	Total/NA	Solid	8015NM Prep	
890-1410-42	C-1050	Total/NA	Solid	8015NM Prep	
890-1410-43	C-1051	Total/NA	Solid	8015NM Prep	
890-1410-44	C-1052	Total/NA	Solid	8015NM Prep	
890-1410-45	C-1053	Total/NA	Solid	8015NM Prep	
890-1410-46	C-1054	Total/NA	Solid	8015NM Prep	
890-1410-47	C-1055	Total/NA	Solid	8015NM Prep	
890-1410-48	C-1056	Total/NA	Solid	8015NM Prep	
890-1410-49	C-1057	Total/NA	Solid	8015NM Prep	
890-1410-50	C-1058	Total/NA	Solid	8015NM Prep	
890-1410-51	C-1059	Total/NA	Solid	8015NM Prep	
890-1410-52	C-1060	Total/NA	Solid	8015NM Prep	
890-1410-53	C-1061	Total/NA	Solid	8015NM Prep	
890-1410-54	C-1062	Total/NA	Solid	8015NM Prep	
890-1410-55	C-1063	Total/NA	Solid	8015NM Prep	
890-1410-56	C-1064	Total/NA	Solid	8015NM Prep	
890-1410-57	C-1065	Total/NA	Solid	8015NM Prep	
890-1410-58	C-1066	Total/NA	Solid	8015NM Prep	
890-1410-59	C-1067	Total/NA	Solid	8015NM Prep	
890-1410-60	C-1068	Total/NA	Solid	8015NM Prep	
MB 880-9625/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9625/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9625/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 9625 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-41 MS	C-1049	Total/NA	Solid	8015NM Prep	
890-1410-41 MSD	C-1049	Total/NA	Solid	8015NM Prep	

Prep Batch: 9626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-61	C-1069	Total/NA	Solid	8015NM Prep	
890-1410-62	C-1070	Total/NA	Solid	8015NM Prep	
890-1410-63	C-1071	Total/NA	Solid	8015NM Prep	
890-1410-64	C-1072	Total/NA	Solid	8015NM Prep	
890-1410-65	C-1073	Total/NA	Solid	8015NM Prep	
890-1410-66	C-1074	Total/NA	Solid	8015NM Prep	
890-1410-67	C-1075	Total/NA	Solid	8015NM Prep	
890-1410-68	C-1076	Total/NA	Solid	8015NM Prep	
890-1410-69	C-1077	Total/NA	Solid	8015NM Prep	
890-1410-70	C-1078	Total/NA	Solid	8015NM Prep	
890-1410-71	C-1079	Total/NA	Solid	8015NM Prep	
890-1410-72	C-1080	Total/NA	Solid	8015NM Prep	
890-1410-73	C-1081	Total/NA	Solid	8015NM Prep	
890-1410-74	C-1082	Total/NA	Solid	8015NM Prep	
890-1410-75	C-1083	Total/NA	Solid	8015NM Prep	
890-1410-76	C-1084	Total/NA	Solid	8015NM Prep	
890-1410-77	C-1085	Total/NA	Solid	8015NM Prep	
890-1410-78	C-1086	Total/NA	Solid	8015NM Prep	
890-1410-79	C-1087	Total/NA	Solid	8015NM Prep	
890-1410-80	C-1088	Total/NA	Solid	8015NM Prep	
MB 880-9626/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9626/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9626/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1410-61 MS	C-1069	Total/NA	Solid	8015NM Prep	
890-1410-61 MSD	C-1069	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-1	C-1009	Total/NA	Solid	8015 NM	
890-1410-2	C-1010	Total/NA	Solid	8015 NM	
890-1410-3	C-1011	Total/NA	Solid	8015 NM	
890-1410-4	C-1012	Total/NA	Solid	8015 NM	
890-1410-5	C-1013	Total/NA	Solid	8015 NM	
890-1410-6	C-1014	Total/NA	Solid	8015 NM	
890-1410-7	C-1015	Total/NA	Solid	8015 NM	
890-1410-8	C-1016	Total/NA	Solid	8015 NM	
890-1410-9	C-1017	Total/NA	Solid	8015 NM	
890-1410-10	C-1018	Total/NA	Solid	8015 NM	
890-1410-11	C-1019	Total/NA	Solid	8015 NM	
890-1410-12	C-1020	Total/NA	Solid	8015 NM	
890-1410-13	C-1021	Total/NA	Solid	8015 NM	
890-1410-14	C-1022	Total/NA	Solid	8015 NM	
890-1410-15	C-1023	Total/NA	Solid	8015 NM	
890-1410-16	C-1024	Total/NA	Solid	8015 NM	
890-1410-17	C-1025	Total/NA	Solid	8015 NM	
890-1410-18	C-1026	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 10145 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-19	C-1027	Total/NA	Solid	8015 NM	
890-1410-20	C-1028	Total/NA	Solid	8015 NM	
890-1410-21	C-1029	Total/NA	Solid	8015 NM	
890-1410-22	C-1030	Total/NA	Solid	8015 NM	
890-1410-23	C-1031	Total/NA	Solid	8015 NM	
890-1410-24	C-1032	Total/NA	Solid	8015 NM	
890-1410-25	C-1033	Total/NA	Solid	8015 NM	
890-1410-26	C-1034	Total/NA	Solid	8015 NM	
890-1410-27	C-1035	Total/NA	Solid	8015 NM	
890-1410-28	C-1036	Total/NA	Solid	8015 NM	
890-1410-29	C-1037	Total/NA	Solid	8015 NM	
890-1410-30	C-1038	Total/NA	Solid	8015 NM	
890-1410-31	C-1039	Total/NA	Solid	8015 NM	
890-1410-32	C-1040	Total/NA	Solid	8015 NM	
890-1410-33	C-1041	Total/NA	Solid	8015 NM	
890-1410-34	C-1042	Total/NA	Solid	8015 NM	
890-1410-35	C-1043	Total/NA	Solid	8015 NM	
890-1410-36	C-1044	Total/NA	Solid	8015 NM	
890-1410-37	C-1045	Total/NA	Solid	8015 NM	
890-1410-38	C-1046	Total/NA	Solid	8015 NM	
890-1410-39	C-1047	Total/NA	Solid	8015 NM	
890-1410-40	C-1048	Total/NA	Solid	8015 NM	
890-1410-41	C-1049	Total/NA	Solid	8015 NM	
890-1410-42	C-1050	Total/NA	Solid	8015 NM	
890-1410-43	C-1051	Total/NA	Solid	8015 NM	
890-1410-44	C-1052	Total/NA	Solid	8015 NM	
890-1410-45	C-1053	Total/NA	Solid	8015 NM	
890-1410-46	C-1054	Total/NA	Solid	8015 NM	
890-1410-47	C-1055	Total/NA	Solid	8015 NM	
890-1410-48	C-1056	Total/NA	Solid	8015 NM	
890-1410-49	C-1057	Total/NA	Solid	8015 NM	
890-1410-50	C-1058	Total/NA	Solid	8015 NM	
890-1410-51	C-1059	Total/NA	Solid	8015 NM	
890-1410-52	C-1060	Total/NA	Solid	8015 NM	
890-1410-53	C-1061	Total/NA	Solid	8015 NM	
890-1410-54	C-1062	Total/NA	Solid	8015 NM	
890-1410-55	C-1063	Total/NA	Solid	8015 NM	
890-1410-56	C-1064	Total/NA	Solid	8015 NM	
890-1410-57	C-1065	Total/NA	Solid	8015 NM	
890-1410-58	C-1066	Total/NA	Solid	8015 NM	
890-1410-59	C-1067	Total/NA	Solid	8015 NM	
890-1410-60	C-1068	Total/NA	Solid	8015 NM	
890-1410-61	C-1069	Total/NA	Solid	8015 NM	
890-1410-62	C-1070	Total/NA	Solid	8015 NM	
890-1410-63	C-1071	Total/NA	Solid	8015 NM	
890-1410-64	C-1072	Total/NA	Solid	8015 NM	
890-1410-65	C-1073	Total/NA	Solid	8015 NM	
890-1410-66	C-1074	Total/NA	Solid	8015 NM	
890-1410-67	C-1075	Total/NA	Solid	8015 NM	
890-1410-68	C-1076	Total/NA	Solid	8015 NM	
890-1410-69	C-1077	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 10145 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-70	C-1078	Total/NA	Solid	8015 NM	
890-1410-71	C-1079	Total/NA	Solid	8015 NM	
890-1410-72	C-1080	Total/NA	Solid	8015 NM	
890-1410-73	C-1081	Total/NA	Solid	8015 NM	
890-1410-74	C-1082	Total/NA	Solid	8015 NM	
890-1410-75	C-1083	Total/NA	Solid	8015 NM	
890-1410-76	C-1084	Total/NA	Solid	8015 NM	
890-1410-77	C-1085	Total/NA	Solid	8015 NM	
890-1410-78	C-1086	Total/NA	Solid	8015 NM	
890-1410-79	C-1087	Total/NA	Solid	8015 NM	
890-1410-80	C-1088	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 9564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-1	C-1009	Soluble	Solid	DI Leach	
890-1410-2	C-1010	Soluble	Solid	DI Leach	
890-1410-3	C-1011	Soluble	Solid	DI Leach	
890-1410-4	C-1012	Soluble	Solid	DI Leach	
890-1410-5	C-1013	Soluble	Solid	DI Leach	
890-1410-6	C-1014	Soluble	Solid	DI Leach	
890-1410-7	C-1015	Soluble	Solid	DI Leach	
890-1410-8	C-1016	Soluble	Solid	DI Leach	
890-1410-9	C-1017	Soluble	Solid	DI Leach	
MB 880-9564/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9564/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9564/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1409-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1409-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 9566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-10	C-1018	Soluble	Solid	DI Leach	
890-1410-11	C-1019	Soluble	Solid	DI Leach	
890-1410-12	C-1020	Soluble	Solid	DI Leach	
890-1410-13	C-1021	Soluble	Solid	DI Leach	
890-1410-14	C-1022	Soluble	Solid	DI Leach	
890-1410-15	C-1023	Soluble	Solid	DI Leach	
890-1410-16	C-1024	Soluble	Solid	DI Leach	
890-1410-17	C-1025	Soluble	Solid	DI Leach	
890-1410-18	C-1026	Soluble	Solid	DI Leach	
890-1410-19	C-1027	Soluble	Solid	DI Leach	
890-1410-20	C-1028	Soluble	Solid	DI Leach	
890-1410-21	C-1029	Soluble	Solid	DI Leach	
890-1410-22	C-1030	Soluble	Solid	DI Leach	
890-1410-23	C-1031	Soluble	Solid	DI Leach	
890-1410-24	C-1032	Soluble	Solid	DI Leach	
890-1410-25	C-1033	Soluble	Solid	DI Leach	
890-1410-26	C-1034	Soluble	Solid	DI Leach	
890-1410-27	C-1035	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 9566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-28	C-1036	Soluble	Solid	DI Leach	
890-1410-29	C-1037	Soluble	Solid	DI Leach	
MB 880-9566/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9566/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9566/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1410-10 MS	C-1018	Soluble	Solid	DI Leach	
890-1410-10 MSD	C-1018	Soluble	Solid	DI Leach	
890-1410-20 MS	C-1028	Soluble	Solid	DI Leach	
890-1410-20 MSD	C-1028	Soluble	Solid	DI Leach	

Leach Batch: 9568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-30	C-1038	Soluble	Solid	DI Leach	
890-1410-31	C-1039	Soluble	Solid	DI Leach	
890-1410-32	C-1040	Soluble	Solid	DI Leach	
890-1410-33	C-1041	Soluble	Solid	DI Leach	
890-1410-34	C-1042	Soluble	Solid	DI Leach	
890-1410-35	C-1043	Soluble	Solid	DI Leach	
890-1410-36	C-1044	Soluble	Solid	DI Leach	
890-1410-37	C-1045	Soluble	Solid	DI Leach	
890-1410-38	C-1046	Soluble	Solid	DI Leach	
890-1410-39	C-1047	Soluble	Solid	DI Leach	
890-1410-40	C-1048	Soluble	Solid	DI Leach	
890-1410-41	C-1049	Soluble	Solid	DI Leach	
890-1410-42	C-1050	Soluble	Solid	DI Leach	
890-1410-43	C-1051	Soluble	Solid	DI Leach	
890-1410-44	C-1052	Soluble	Solid	DI Leach	
890-1410-45	C-1053	Soluble	Solid	DI Leach	
890-1410-46	C-1054	Soluble	Solid	DI Leach	
890-1410-47	C-1055	Soluble	Solid	DI Leach	
890-1410-48	C-1056	Soluble	Solid	DI Leach	
890-1410-49	C-1057	Soluble	Solid	DI Leach	
MB 880-9568/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9568/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9568/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1410-30 MS	C-1038	Soluble	Solid	DI Leach	
890-1410-30 MSD	C-1038	Soluble	Solid	DI Leach	
890-1410-40 MS	C-1048	Soluble	Solid	DI Leach	
890-1410-40 MSD	C-1048	Soluble	Solid	DI Leach	

Leach Batch: 9569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-50	C-1058	Soluble	Solid	DI Leach	
890-1410-51	C-1059	Soluble	Solid	DI Leach	
890-1410-52	C-1060	Soluble	Solid	DI Leach	
890-1410-53	C-1061	Soluble	Solid	DI Leach	
890-1410-54	C-1062	Soluble	Solid	DI Leach	
890-1410-55	C-1063	Soluble	Solid	DI Leach	
890-1410-56	C-1064	Soluble	Solid	DI Leach	
890-1410-57	C-1065	Soluble	Solid	DI Leach	
890-1410-58	C-1066	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 9569 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-59	C-1067	Soluble	Solid	DI Leach	
890-1410-60	C-1068	Soluble	Solid	DI Leach	
890-1410-61	C-1069	Soluble	Solid	DI Leach	
890-1410-62	C-1070	Soluble	Solid	DI Leach	
890-1410-63	C-1071	Soluble	Solid	DI Leach	
890-1410-64	C-1072	Soluble	Solid	DI Leach	
890-1410-65	C-1073	Soluble	Solid	DI Leach	
890-1410-66	C-1074	Soluble	Solid	DI Leach	
890-1410-67	C-1075	Soluble	Solid	DI Leach	
890-1410-68	C-1076	Soluble	Solid	DI Leach	
890-1410-69	C-1077	Soluble	Solid	DI Leach	
MB 880-9569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1410-50 MS	C-1058	Soluble	Solid	DI Leach	
890-1410-50 MSD	C-1058	Soluble	Solid	DI Leach	
890-1410-60 MS	C-1068	Soluble	Solid	DI Leach	
890-1410-60 MSD	C-1068	Soluble	Solid	DI Leach	

Leach Batch: 9570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-70	C-1078	Soluble	Solid	DI Leach	
890-1410-71	C-1079	Soluble	Solid	DI Leach	
890-1410-72	C-1080	Soluble	Solid	DI Leach	
890-1410-73	C-1081	Soluble	Solid	DI Leach	
890-1410-74	C-1082	Soluble	Solid	DI Leach	
890-1410-75	C-1083	Soluble	Solid	DI Leach	
890-1410-76	C-1084	Soluble	Solid	DI Leach	
890-1410-77	C-1085	Soluble	Solid	DI Leach	
890-1410-78	C-1086	Soluble	Solid	DI Leach	
890-1410-79	C-1087	Soluble	Solid	DI Leach	
890-1410-80	C-1088	Soluble	Solid	DI Leach	
MB 880-9570/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9570/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9570/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1410-74 MS	C-1082	Soluble	Solid	DI Leach	
890-1410-74 MSD	C-1082	Soluble	Solid	DI Leach	

Analysis Batch: 9793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-1	C-1009	Soluble	Solid	300.0	9564
890-1410-2	C-1010	Soluble	Solid	300.0	9564
890-1410-3	C-1011	Soluble	Solid	300.0	9564
890-1410-4	C-1012	Soluble	Solid	300.0	9564
890-1410-5	C-1013	Soluble	Solid	300.0	9564
890-1410-6	C-1014	Soluble	Solid	300.0	9564
890-1410-7	C-1015	Soluble	Solid	300.0	9564
890-1410-8	C-1016	Soluble	Solid	300.0	9564
890-1410-9	C-1017	Soluble	Solid	300.0	9564
MB 880-9564/1-A	Method Blank	Soluble	Solid	300.0	9564
LCS 880-9564/2-A	Lab Control Sample	Soluble	Solid	300.0	9564

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 9793 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-9564/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9564
890-1409-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	9564
890-1409-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9564

Analysis Batch: 9794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-10	C-1018	Soluble	Solid	300.0	9566
890-1410-11	C-1019	Soluble	Solid	300.0	9566
890-1410-12	C-1020	Soluble	Solid	300.0	9566
890-1410-13	C-1021	Soluble	Solid	300.0	9566
890-1410-14	C-1022	Soluble	Solid	300.0	9566
890-1410-15	C-1023	Soluble	Solid	300.0	9566
890-1410-16	C-1024	Soluble	Solid	300.0	9566
890-1410-17	C-1025	Soluble	Solid	300.0	9566
890-1410-18	C-1026	Soluble	Solid	300.0	9566
890-1410-19	C-1027	Soluble	Solid	300.0	9566
890-1410-20	C-1028	Soluble	Solid	300.0	9566
890-1410-21	C-1029	Soluble	Solid	300.0	9566
890-1410-22	C-1030	Soluble	Solid	300.0	9566
890-1410-23	C-1031	Soluble	Solid	300.0	9566
890-1410-24	C-1032	Soluble	Solid	300.0	9566
890-1410-25	C-1033	Soluble	Solid	300.0	9566
890-1410-26	C-1034	Soluble	Solid	300.0	9566
890-1410-27	C-1035	Soluble	Solid	300.0	9566
890-1410-28	C-1036	Soluble	Solid	300.0	9566
890-1410-29	C-1037	Soluble	Solid	300.0	9566
MB 880-9566/1-A	Method Blank	Soluble	Solid	300.0	9566
LCS 880-9566/2-A	Lab Control Sample	Soluble	Solid	300.0	9566
LCSD 880-9566/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9566
890-1410-10 MS	C-1018	Soluble	Solid	300.0	9566
890-1410-10 MSD	C-1018	Soluble	Solid	300.0	9566
890-1410-20 MS	C-1028	Soluble	Solid	300.0	9566
890-1410-20 MSD	C-1028	Soluble	Solid	300.0	9566

Analysis Batch: 9795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-30	C-1038	Soluble	Solid	300.0	9568
890-1410-31	C-1039	Soluble	Solid	300.0	9568
890-1410-32	C-1040	Soluble	Solid	300.0	9568
890-1410-33	C-1041	Soluble	Solid	300.0	9568
890-1410-34	C-1042	Soluble	Solid	300.0	9568
890-1410-35	C-1043	Soluble	Solid	300.0	9568
890-1410-36	C-1044	Soluble	Solid	300.0	9568
890-1410-37	C-1045	Soluble	Solid	300.0	9568
890-1410-38	C-1046	Soluble	Solid	300.0	9568
890-1410-39	C-1047	Soluble	Solid	300.0	9568
890-1410-40	C-1048	Soluble	Solid	300.0	9568
890-1410-41	C-1049	Soluble	Solid	300.0	9568
890-1410-42	C-1050	Soluble	Solid	300.0	9568
890-1410-43	C-1051	Soluble	Solid	300.0	9568
890-1410-44	C-1052	Soluble	Solid	300.0	9568

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 9795 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-45	C-1053	Soluble	Solid	300.0	9568
890-1410-46	C-1054	Soluble	Solid	300.0	9568
890-1410-47	C-1055	Soluble	Solid	300.0	9568
890-1410-48	C-1056	Soluble	Solid	300.0	9568
890-1410-49	C-1057	Soluble	Solid	300.0	9568
MB 880-9568/1-A	Method Blank	Soluble	Solid	300.0	9568
LCS 880-9568/2-A	Lab Control Sample	Soluble	Solid	300.0	9568
LCSD 880-9568/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9568
890-1410-30 MS	C-1038	Soluble	Solid	300.0	9568
890-1410-30 MSD	C-1038	Soluble	Solid	300.0	9568
890-1410-40 MS	C-1048	Soluble	Solid	300.0	9568
890-1410-40 MSD	C-1048	Soluble	Solid	300.0	9568

Analysis Batch: 9797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-50	C-1058	Soluble	Solid	300.0	9569
890-1410-51	C-1059	Soluble	Solid	300.0	9569
890-1410-52	C-1060	Soluble	Solid	300.0	9569
890-1410-53	C-1061	Soluble	Solid	300.0	9569
890-1410-54	C-1062	Soluble	Solid	300.0	9569
890-1410-55	C-1063	Soluble	Solid	300.0	9569
890-1410-56	C-1064	Soluble	Solid	300.0	9569
890-1410-57	C-1065	Soluble	Solid	300.0	9569
890-1410-58	C-1066	Soluble	Solid	300.0	9569
890-1410-59	C-1067	Soluble	Solid	300.0	9569
890-1410-60	C-1068	Soluble	Solid	300.0	9569
890-1410-61	C-1069	Soluble	Solid	300.0	9569
890-1410-62	C-1070	Soluble	Solid	300.0	9569
890-1410-63	C-1071	Soluble	Solid	300.0	9569
890-1410-64	C-1072	Soluble	Solid	300.0	9569
890-1410-65	C-1073	Soluble	Solid	300.0	9569
890-1410-66	C-1074	Soluble	Solid	300.0	9569
890-1410-67	C-1075	Soluble	Solid	300.0	9569
890-1410-68	C-1076	Soluble	Solid	300.0	9569
890-1410-69	C-1077	Soluble	Solid	300.0	9569
MB 880-9569/1-A	Method Blank	Soluble	Solid	300.0	9569
LCS 880-9569/2-A	Lab Control Sample	Soluble	Solid	300.0	9569
LCSD 880-9569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9569
890-1410-50 MS	C-1058	Soluble	Solid	300.0	9569
890-1410-50 MSD	C-1058	Soluble	Solid	300.0	9569
890-1410-60 MS	C-1068	Soluble	Solid	300.0	9569
890-1410-60 MSD	C-1068	Soluble	Solid	300.0	9569

Analysis Batch: 9806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-70	C-1078	Soluble	Solid	300.0	9570
890-1410-71	C-1079	Soluble	Solid	300.0	9570
890-1410-72	C-1080	Soluble	Solid	300.0	9570
890-1410-73	C-1081	Soluble	Solid	300.0	9570
890-1410-74	C-1082	Soluble	Solid	300.0	9570
890-1410-75	C-1083	Soluble	Solid	300.0	9570

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 9806 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1410-76	C-1084	Soluble	Solid	300.0	9570
890-1410-77	C-1085	Soluble	Solid	300.0	9570
890-1410-78	C-1086	Soluble	Solid	300.0	9570
890-1410-79	C-1087	Soluble	Solid	300.0	9570
890-1410-80	C-1088	Soluble	Solid	300.0	9570
MB 880-9570/1-A	Method Blank	Soluble	Solid	300.0	9570
LCS 880-9570/2-A	Lab Control Sample	Soluble	Solid	300.0	9570
LCSD 880-9570/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9570
890-1410-74 MS	C-1082	Soluble	Solid	300.0	9570
890-1410-74 MSD	C-1082	Soluble	Solid	300.0	9570

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1009

Lab Sample ID: 890-1410-1

Date Collected: 10/12/21 09:09

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 10:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 12:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9564	10/15/21 17:37	CA	XEN MID
Soluble	Analysis	300.0		10	0 mL	1.0 mL	9793	10/18/21 21:46	SC	XEN MID

Client Sample ID: C-1010

Lab Sample ID: 890-1410-2

Date Collected: 10/12/21 09:10

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 10:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 13:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9564	10/15/21 17:37	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	9793	10/18/21 21:52	SC	XEN MID

Client Sample ID: C-1011

Lab Sample ID: 890-1410-3

Date Collected: 10/12/21 09:11

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 11:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 14:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9564	10/15/21 17:37	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	9793	10/18/21 22:09	SC	XEN MID

Client Sample ID: C-1012

Lab Sample ID: 890-1410-4

Date Collected: 10/12/21 09:12

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 11:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1012

Lab Sample ID: 890-1410-4

Date Collected: 10/12/21 09:12

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 14:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9564	10/15/21 17:37	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	9793	10/18/21 22:15	SC	XEN MID

Client Sample ID: C-1013

Lab Sample ID: 890-1410-5

Date Collected: 10/12/21 09:13

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 12:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 14:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9564	10/15/21 17:37	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	9793	10/18/21 22:20	SC	XEN MID

Client Sample ID: C-1014

Lab Sample ID: 890-1410-6

Date Collected: 10/12/21 09:14

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 12:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 15:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9564	10/15/21 17:37	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	9793	10/18/21 22:26	SC	XEN MID

Client Sample ID: C-1015

Lab Sample ID: 890-1410-7

Date Collected: 10/12/21 09:15

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 13:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 15:27	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1015

Lab Sample ID: 890-1410-7

Date Collected: 10/12/21 09:15

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	9564	10/15/21 17:37	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	9793	10/18/21 22:31	SC	XEN MID

Client Sample ID: C-1016

Lab Sample ID: 890-1410-8

Date Collected: 10/12/21 09:16

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 13:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 15:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9564	10/15/21 17:37	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	9793	10/18/21 22:37	SC	XEN MID

Client Sample ID: C-1017

Lab Sample ID: 890-1410-9

Date Collected: 10/12/21 09:17

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 14:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 16:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9564	10/15/21 17:37	CA	XEN MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	9793	10/18/21 22:43	SC	XEN MID

Client Sample ID: C-1018

Lab Sample ID: 890-1410-10

Date Collected: 10/12/21 09:18

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 14:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 16:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 20:27	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1019

Lab Sample ID: 890-1410-11

Date Collected: 10/12/21 09:19

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 16:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 17:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 20:46	CH	XEN MID

Client Sample ID: C-1020

Lab Sample ID: 890-1410-12

Date Collected: 10/12/21 09:20

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 16:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 17:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 20:53	CH	XEN MID

Client Sample ID: C-1021

Lab Sample ID: 890-1410-13

Date Collected: 10/12/21 09:21

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 17:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 17:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		1			9794	10/19/21 20:59	CH	XEN MID

Client Sample ID: C-1022

Lab Sample ID: 890-1410-14

Date Collected: 10/12/21 09:22

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 17:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1022

Lab Sample ID: 890-1410-14

Date Collected: 10/12/21 09:22

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 21:05	CH	XEN MID

Client Sample ID: C-1023

Lab Sample ID: 890-1410-15

Date Collected: 10/12/21 09:23

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 18:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 21:24	CH	XEN MID

Client Sample ID: C-1024

Lab Sample ID: 890-1410-16

Date Collected: 10/12/21 09:24

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 18:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 21:30	CH	XEN MID

Client Sample ID: C-1025

Lab Sample ID: 890-1410-17

Date Collected: 10/12/21 09:25

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 19:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 19:25	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1025**Lab Sample ID: 890-1410-17****Date Collected: 10/12/21 09:25****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		1			9794	10/19/21 21:37	CH	XEN MID

Client Sample ID: C-1026**Lab Sample ID: 890-1410-18****Date Collected: 10/12/21 09:26****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 19:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 19:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		1			9794	10/19/21 21:43	CH	XEN MID

Client Sample ID: C-1027**Lab Sample ID: 890-1410-19****Date Collected: 10/12/21 09:27****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 20:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 20:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		1			9794	10/19/21 21:49	CH	XEN MID

Client Sample ID: C-1028**Lab Sample ID: 890-1410-20****Date Collected: 10/12/21 09:28****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9471	10/14/21 13:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/23/21 20:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9486	10/14/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9600	10/17/21 20:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 21:56	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1029

Lab Sample ID: 890-1410-21

Date Collected: 10/12/21 09:29

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 02:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 12:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		10			9794	10/19/21 22:14	CH	XEN MID

Client Sample ID: C-1030

Lab Sample ID: 890-1410-22

Date Collected: 10/12/21 09:30

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 02:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 13:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 22:21	CH	XEN MID

Client Sample ID: C-1031

Lab Sample ID: 890-1410-23

Date Collected: 10/12/21 09:31

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 03:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 14:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 22:40	CH	XEN MID

Client Sample ID: C-1032

Lab Sample ID: 890-1410-24

Date Collected: 10/12/21 09:32

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 03:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1032

Lab Sample ID: 890-1410-24

Date Collected: 10/12/21 09:32

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 14:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		1			9794	10/19/21 22:46	CH	XEN MID

Client Sample ID: C-1033

Lab Sample ID: 890-1410-25

Date Collected: 10/12/21 09:33

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 03:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 14:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 22:52	CH	XEN MID

Client Sample ID: C-1034

Lab Sample ID: 890-1410-26

Date Collected: 10/12/21 09:34

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 04:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 15:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		1			9794	10/19/21 22:59	CH	XEN MID

Client Sample ID: C-1035

Lab Sample ID: 890-1410-27

Date Collected: 10/12/21 09:35

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 04:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 15:27	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1035**Lab Sample ID: 890-1410-27****Date Collected: 10/12/21 09:35****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 23:05	CH	XEN MID

Client Sample ID: C-1036**Lab Sample ID: 890-1410-28****Date Collected: 10/12/21 09:36****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 04:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 15:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 23:11	CH	XEN MID

Client Sample ID: C-1037**Lab Sample ID: 890-1410-29****Date Collected: 10/12/21 11:07****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 05:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 16:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9566	10/15/21 17:40	CA	XEN MID
Soluble	Analysis	300.0		5			9794	10/19/21 23:17	CH	XEN MID

Client Sample ID: C-1038**Lab Sample ID: 890-1410-30****Date Collected: 10/12/21 11:08****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 05:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 16:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/19/21 23:26	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1039

Lab Sample ID: 890-1410-31

Date Collected: 10/12/21 11:09

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 07:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 17:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/19/21 23:43	CH	XEN MID

Client Sample ID: C-1040

Lab Sample ID: 890-1410-32

Date Collected: 10/12/21 11:10

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 07:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 17:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/19/21 23:49	CH	XEN MID

Client Sample ID: C-1041

Lab Sample ID: 890-1410-33

Date Collected: 10/12/21 11:11

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 08:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 17:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/19/21 23:55	CH	XEN MID

Client Sample ID: C-1042

Lab Sample ID: 890-1410-34

Date Collected: 10/12/21 11:12

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 08:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1042

Lab Sample ID: 890-1410-34

Date Collected: 10/12/21 11:12

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 00:00	CH	XEN MID

Client Sample ID: C-1043

Lab Sample ID: 890-1410-35

Date Collected: 10/12/21 11:13

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 09:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 00:17	CH	XEN MID

Client Sample ID: C-1044

Lab Sample ID: 890-1410-36

Date Collected: 10/12/21 11:14

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 09:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 00:23	CH	XEN MID

Client Sample ID: C-1045

Lab Sample ID: 890-1410-37

Date Collected: 10/12/21 11:15

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 10:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 19:25	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1045**Lab Sample ID: 890-1410-37****Date Collected: 10/12/21 11:15****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 00:28	CH	XEN MID

Client Sample ID: C-1046**Lab Sample ID: 890-1410-38****Date Collected: 10/12/21 11:16****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 10:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 19:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		10			9795	10/20/21 00:34	CH	XEN MID

Client Sample ID: C-1047**Lab Sample ID: 890-1410-39****Date Collected: 10/12/21 11:17****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 10:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 20:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 00:39	CH	XEN MID

Client Sample ID: C-1048**Lab Sample ID: 890-1410-40****Date Collected: 10/12/21 11:18****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9470	10/14/21 13:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/20/21 11:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9496	10/14/21 15:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9602	10/17/21 20:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		1			9795	10/20/21 00:45	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1049

Lab Sample ID: 890-1410-41

Date Collected: 10/12/21 11:19

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/18/21 20:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 12:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 01:02	CH	XEN MID

Client Sample ID: C-1050

Lab Sample ID: 890-1410-42

Date Collected: 10/12/21 11:20

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/18/21 22:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 13:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		1			9795	10/20/21 01:07	CH	XEN MID

Client Sample ID: C-1051

Lab Sample ID: 890-1410-43

Date Collected: 10/12/21 11:21

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/18/21 23:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 13:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 01:24	CH	XEN MID

Client Sample ID: C-1052

Lab Sample ID: 890-1410-44

Date Collected: 10/12/21 11:22

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/18/21 23:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1052

Lab Sample ID: 890-1410-44

Date Collected: 10/12/21 11:22

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 13:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 01:30	CH	XEN MID

Client Sample ID: C-1053

Lab Sample ID: 890-1410-45

Date Collected: 10/12/21 11:23

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/18/21 23:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 14:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 01:36	CH	XEN MID

Client Sample ID: C-1054

Lab Sample ID: 890-1410-46

Date Collected: 10/12/21 11:24

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 00:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 14:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 01:41	CH	XEN MID

Client Sample ID: C-1055

Lab Sample ID: 890-1410-47

Date Collected: 10/12/21 11:25

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 00:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 14:54	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1055

Lab Sample ID: 890-1410-47

Date Collected: 10/12/21 11:25

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 01:47	CH	XEN MID

Client Sample ID: C-1056

Lab Sample ID: 890-1410-48

Date Collected: 10/12/21 11:26

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 00:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 15:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 01:53	CH	XEN MID

Client Sample ID: C-1057

Lab Sample ID: 890-1410-49

Date Collected: 10/12/21 11:27

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 01:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 15:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9568	10/15/21 17:43	CA	XEN MID
Soluble	Analysis	300.0		5			9795	10/20/21 01:58	CH	XEN MID

Client Sample ID: C-1058

Lab Sample ID: 890-1410-50

Date Collected: 10/12/21 13:18

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 01:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 16:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		1			9797	10/20/21 18:46	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1059**Lab Sample ID: 890-1410-51****Date Collected: 10/12/21 13:19****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 08:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 18:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		1			9797	10/20/21 19:08	CH	XEN MID

Client Sample ID: C-1060**Lab Sample ID: 890-1410-52****Date Collected: 10/12/21 13:20****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 09:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 19:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		1			9797	10/20/21 19:15	CH	XEN MID

Client Sample ID: C-1061**Lab Sample ID: 890-1410-53****Date Collected: 10/12/21 13:21****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 09:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 19:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		1			9797	10/20/21 19:22	CH	XEN MID

Client Sample ID: C-1062**Lab Sample ID: 890-1410-54****Date Collected: 10/12/21 13:22****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 09:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1062

Lab Sample ID: 890-1410-54

Date Collected: 10/12/21 13:22

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 19:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		5			9797	10/20/21 19:29	CH	XEN MID

Client Sample ID: C-1063

Lab Sample ID: 890-1410-55

Date Collected: 10/12/21 13:23

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 10:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 20:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		10			9797	10/20/21 19:51	CH	XEN MID

Client Sample ID: C-1064

Lab Sample ID: 890-1410-56

Date Collected: 10/12/21 13:24

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 10:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 20:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		5			9797	10/20/21 19:58	CH	XEN MID

Client Sample ID: C-1065

Lab Sample ID: 890-1410-57

Date Collected: 10/12/21 13:25

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 11:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 20:54	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1065

Lab Sample ID: 890-1410-57

Date Collected: 10/12/21 13:25

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		5			9797	10/20/21 20:05	CH	XEN MID

Client Sample ID: C-1066

Lab Sample ID: 890-1410-58

Date Collected: 10/12/21 13:26

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 11:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 21:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		5			9797	10/20/21 20:12	CH	XEN MID

Client Sample ID: C-1067

Lab Sample ID: 890-1410-59

Date Collected: 10/12/21 13:27

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 11:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 21:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		5			9797	10/20/21 20:19	CH	XEN MID

Client Sample ID: C-1068

Lab Sample ID: 890-1410-60

Date Collected: 10/12/21 13:28

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	9472	10/14/21 13:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9604	10/19/21 12:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9625	10/18/21 07:33	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9617	10/18/21 21:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		5			9797	10/20/21 20:26	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1069

Lab Sample ID: 890-1410-61

Date Collected: 10/12/21 13:29

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 14:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 12:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		10			9797	10/20/21 20:48	CH	XEN MID

Client Sample ID: C-1070

Lab Sample ID: 890-1410-62

Date Collected: 10/12/21 13:30

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 15:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 13:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		5			9797	10/20/21 20:55	CH	XEN MID

Client Sample ID: C-1071

Lab Sample ID: 890-1410-63

Date Collected: 10/12/21 13:31

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 15:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 13:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		5			9797	10/20/21 21:17	CH	XEN MID

Client Sample ID: C-1072

Lab Sample ID: 890-1410-64

Date Collected: 10/12/21 13:32

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 15:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1072**Lab Sample ID: 890-1410-64****Date Collected: 10/12/21 13:32****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 13:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		1			9797	10/20/21 21:24	CH	XEN MID

Client Sample ID: C-1073**Lab Sample ID: 890-1410-65****Date Collected: 10/12/21 13:32****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 16:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 14:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		5			9797	10/20/21 21:31	CH	XEN MID

Client Sample ID: C-1074**Lab Sample ID: 890-1410-66****Date Collected: 10/12/21 13:34****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 16:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 14:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		5			9797	10/20/21 21:38	CH	XEN MID

Client Sample ID: C-1075**Lab Sample ID: 890-1410-67****Date Collected: 10/12/21 13:35****Matrix: Solid****Date Received: 10/12/21 15:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 17:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 14:54	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1075

Lab Sample ID: 890-1410-67

Date Collected: 10/12/21 13:35

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		5			9797	10/20/21 21:45	CH	XEN MID

Client Sample ID: C-1076

Lab Sample ID: 890-1410-68

Date Collected: 10/12/21 13:36

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 17:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 15:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		1			9797	10/20/21 21:52	CH	XEN MID

Client Sample ID: C-1077

Lab Sample ID: 890-1410-69

Date Collected: 10/12/21 13:37

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 17:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 15:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9569	10/15/21 17:46	CA	XEN MID
Soluble	Analysis	300.0		1			9797	10/20/21 22:00	CH	XEN MID

Client Sample ID: C-1078

Lab Sample ID: 890-1410-70

Date Collected: 10/12/21 13:38

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 18:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 16:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9570	10/15/21 17:49	CA	XEN MID
Soluble	Analysis	300.0		1			9806	10/19/21 00:24	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1079

Lab Sample ID: 890-1410-71

Date Collected: 10/12/21 13:39

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 19:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 18:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9570	10/15/21 17:49	CA	XEN MID
Soluble	Analysis	300.0		5			9806	10/19/21 00:29	SC	XEN MID

Client Sample ID: C-1080

Lab Sample ID: 890-1410-72

Date Collected: 10/12/21 13:40

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 20:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 19:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9570	10/15/21 17:49	CA	XEN MID
Soluble	Analysis	300.0		5			9806	10/19/21 00:35	SC	XEN MID

Client Sample ID: C-1081

Lab Sample ID: 890-1410-73

Date Collected: 10/12/21 13:41

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 20:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 19:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9570	10/15/21 17:49	CA	XEN MID
Soluble	Analysis	300.0		1			9806	10/19/21 00:41	SC	XEN MID

Client Sample ID: C-1082

Lab Sample ID: 890-1410-74

Date Collected: 10/12/21 13:42

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 20:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1082

Lab Sample ID: 890-1410-74

Date Collected: 10/12/21 13:42

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 19:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9570	10/15/21 17:49	CA	XEN MID
Soluble	Analysis	300.0		1			9806	10/19/21 00:46	SC	XEN MID

Client Sample ID: C-1083

Lab Sample ID: 890-1410-75

Date Collected: 10/12/21 13:43

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 21:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 20:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9570	10/15/21 17:49	CA	XEN MID
Soluble	Analysis	300.0		1			9806	10/19/21 01:03	SC	XEN MID

Client Sample ID: C-1084

Lab Sample ID: 890-1410-76

Date Collected: 10/12/21 13:44

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 21:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 20:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9570	10/15/21 17:49	CA	XEN MID
Soluble	Analysis	300.0		1			9806	10/19/21 01:09	SC	XEN MID

Client Sample ID: C-1085

Lab Sample ID: 890-1410-77

Date Collected: 10/12/21 13:45

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 21:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 20:54	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Client Sample ID: C-1085

Lab Sample ID: 890-1410-77

Date Collected: 10/12/21 13:45

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	9570	10/15/21 17:49	CA	XEN MID
Soluble	Analysis	300.0		1			9806	10/19/21 01:25	SC	XEN MID

Client Sample ID: C-1086

Lab Sample ID: 890-1410-78

Date Collected: 10/12/21 13:46

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 22:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 21:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9570	10/15/21 17:49	CA	XEN MID
Soluble	Analysis	300.0		1			9806	10/19/21 01:31	SC	XEN MID

Client Sample ID: C-1087

Lab Sample ID: 890-1410-79

Date Collected: 10/12/21 13:47

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 22:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 21:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9570	10/15/21 17:49	CA	XEN MID
Soluble	Analysis	300.0		1			9806	10/19/21 01:37	SC	XEN MID

Client Sample ID: C-1088

Lab Sample ID: 890-1410-80

Date Collected: 10/12/21 13:48

Matrix: Solid

Date Received: 10/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	9473	10/14/21 13:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9845	10/19/21 22:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9626	10/18/21 07:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9619	10/18/21 21:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9570	10/15/21 17:49	CA	XEN MID
Soluble	Analysis	300.0		5			9806	10/19/21 01:42	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1410-1	C-1009	Solid	10/12/21 09:09	10/12/21 15:41
890-1410-2	C-1010	Solid	10/12/21 09:10	10/12/21 15:41
890-1410-3	C-1011	Solid	10/12/21 09:11	10/12/21 15:41
890-1410-4	C-1012	Solid	10/12/21 09:12	10/12/21 15:41
890-1410-5	C-1013	Solid	10/12/21 09:13	10/12/21 15:41
890-1410-6	C-1014	Solid	10/12/21 09:14	10/12/21 15:41
890-1410-7	C-1015	Solid	10/12/21 09:15	10/12/21 15:41
890-1410-8	C-1016	Solid	10/12/21 09:16	10/12/21 15:41
890-1410-9	C-1017	Solid	10/12/21 09:17	10/12/21 15:41
890-1410-10	C-1018	Solid	10/12/21 09:18	10/12/21 15:41
890-1410-11	C-1019	Solid	10/12/21 09:19	10/12/21 15:41
890-1410-12	C-1020	Solid	10/12/21 09:20	10/12/21 15:41
890-1410-13	C-1021	Solid	10/12/21 09:21	10/12/21 15:41
890-1410-14	C-1022	Solid	10/12/21 09:22	10/12/21 15:41
890-1410-15	C-1023	Solid	10/12/21 09:23	10/12/21 15:41
890-1410-16	C-1024	Solid	10/12/21 09:24	10/12/21 15:41
890-1410-17	C-1025	Solid	10/12/21 09:25	10/12/21 15:41
890-1410-18	C-1026	Solid	10/12/21 09:26	10/12/21 15:41
890-1410-19	C-1027	Solid	10/12/21 09:27	10/12/21 15:41
890-1410-20	C-1028	Solid	10/12/21 09:28	10/12/21 15:41
890-1410-21	C-1029	Solid	10/12/21 09:29	10/12/21 15:41
890-1410-22	C-1030	Solid	10/12/21 09:30	10/12/21 15:41
890-1410-23	C-1031	Solid	10/12/21 09:31	10/12/21 15:41
890-1410-24	C-1032	Solid	10/12/21 09:32	10/12/21 15:41
890-1410-25	C-1033	Solid	10/12/21 09:33	10/12/21 15:41
890-1410-26	C-1034	Solid	10/12/21 09:34	10/12/21 15:41
890-1410-27	C-1035	Solid	10/12/21 09:35	10/12/21 15:41
890-1410-28	C-1036	Solid	10/12/21 09:36	10/12/21 15:41
890-1410-29	C-1037	Solid	10/12/21 11:07	10/12/21 15:41
890-1410-30	C-1038	Solid	10/12/21 11:08	10/12/21 15:41
890-1410-31	C-1039	Solid	10/12/21 11:09	10/12/21 15:41
890-1410-32	C-1040	Solid	10/12/21 11:10	10/12/21 15:41
890-1410-33	C-1041	Solid	10/12/21 11:11	10/12/21 15:41
890-1410-34	C-1042	Solid	10/12/21 11:12	10/12/21 15:41
890-1410-35	C-1043	Solid	10/12/21 11:13	10/12/21 15:41
890-1410-36	C-1044	Solid	10/12/21 11:14	10/12/21 15:41
890-1410-37	C-1045	Solid	10/12/21 11:15	10/12/21 15:41
890-1410-38	C-1046	Solid	10/12/21 11:16	10/12/21 15:41
890-1410-39	C-1047	Solid	10/12/21 11:17	10/12/21 15:41
890-1410-40	C-1048	Solid	10/12/21 11:18	10/12/21 15:41
890-1410-41	C-1049	Solid	10/12/21 11:19	10/12/21 15:41
890-1410-42	C-1050	Solid	10/12/21 11:20	10/12/21 15:41
890-1410-43	C-1051	Solid	10/12/21 11:21	10/12/21 15:41
890-1410-44	C-1052	Solid	10/12/21 11:22	10/12/21 15:41
890-1410-45	C-1053	Solid	10/12/21 11:23	10/12/21 15:41
890-1410-46	C-1054	Solid	10/12/21 11:24	10/12/21 15:41
890-1410-47	C-1055	Solid	10/12/21 11:25	10/12/21 15:41
890-1410-48	C-1056	Solid	10/12/21 11:26	10/12/21 15:41
890-1410-49	C-1057	Solid	10/12/21 11:27	10/12/21 15:41
890-1410-50	C-1058	Solid	10/12/21 13:18	10/12/21 15:41
890-1410-51	C-1059	Solid	10/12/21 13:19	10/12/21 15:41
890-1410-52	C-1060	Solid	10/12/21 13:20	10/12/21 15:41
890-1410-53	C-1061	Solid	10/12/21 13:21	10/12/21 15:41
890-1410-54	C-1062	Solid	10/12/21 13:22	10/12/21 15:41

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1410-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1410-55	C-1063	Solid	10/12/21 13:23	10/12/21 15:41
890-1410-56	C-1064	Solid	10/12/21 13:24	10/12/21 15:41
890-1410-57	C-1065	Solid	10/12/21 13:25	10/12/21 15:41
890-1410-58	C-1066	Solid	10/12/21 13:26	10/12/21 15:41
890-1410-59	C-1067	Solid	10/12/21 13:27	10/12/21 15:41
890-1410-60	C-1068	Solid	10/12/21 13:28	10/12/21 15:41
890-1410-61	C-1069	Solid	10/12/21 13:29	10/12/21 15:41
890-1410-62	C-1070	Solid	10/12/21 13:30	10/12/21 15:41
890-1410-63	C-1071	Solid	10/12/21 13:31	10/12/21 15:41
890-1410-64	C-1072	Solid	10/12/21 13:32	10/12/21 15:41
890-1410-65	C-1073	Solid	10/12/21 13:32	10/12/21 15:41
890-1410-66	C-1074	Solid	10/12/21 13:34	10/12/21 15:41
890-1410-67	C-1075	Solid	10/12/21 13:35	10/12/21 15:41
890-1410-68	C-1076	Solid	10/12/21 13:36	10/12/21 15:41
890-1410-69	C-1077	Solid	10/12/21 13:37	10/12/21 15:41
890-1410-70	C-1078	Solid	10/12/21 13:38	10/12/21 15:41
890-1410-71	C-1079	Solid	10/12/21 13:39	10/12/21 15:41
890-1410-72	C-1080	Solid	10/12/21 13:40	10/12/21 15:41
890-1410-73	C-1081	Solid	10/12/21 13:41	10/12/21 15:41
890-1410-74	C-1082	Solid	10/12/21 13:42	10/12/21 15:41
890-1410-75	C-1083	Solid	10/12/21 13:43	10/12/21 15:41
890-1410-76	C-1084	Solid	10/12/21 13:44	10/12/21 15:41
890-1410-77	C-1085	Solid	10/12/21 13:45	10/12/21 15:41
890-1410-78	C-1086	Solid	10/12/21 13:46	10/12/21 15:41
890-1410-79	C-1087	Solid	10/12/21 13:47	10/12/21 15:41
890-1410-80	C-1088	Solid	10/12/21 13:48	10/12/21 15:41

No. 2130

CHAIN-OF-CUSTODY

Aarson &
sociates, Inc.
Environmental Consultants

69U-1410 Chain of Custody

Data Reported to:

DATE: 10/12/2001 PAGE 1 OF 6
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmdale AST
LAI PROJECT #: 21-0105-02 COLLECTOR: DSC

PAGE 1 OF 6

10/25/2021

[illegible]

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No. 2131

CHAIN-OF-CUSTODY

Marson & Associates, Inc.
Environmental Consultants

507 N. Mainfield, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 10/12/2021 PAGE 2 OF 6
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: 21-0105-02 PALMIST
LAI PROJECT #: 21-0105-02 COLLECTOR: BSG

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State

MST / NM

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄

NaOH

ICE

UNPRESSERVED

ANALYSES

BTEX / MTBE

TPH 418.1

TPH 1005

TPH 1006

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8062 PESTICIDES

TCPP - PCBs

TCPP - METALS (RCRA)

TOTAL METALS (RCRA)

LEAD - TOTAL

RCI - TOX

TDS - TSS

PH

EXPLOSIVES

CHLORIDES

ANIONS

ALKALINITY

CYANIDE

OTHER LIST

FLASHPOINT

% MOISTURE

PECHLORATE

FIELD NOTES

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-1024		10/12/21	0924	S	1					X	X	BTEX / MTBE	
C-1025			0925								X	TPH 418.1	
C-1026			0926								X	TPH 1005	
C-1027			0927								X	TPH 1006	
C-1028			0928								X	GASOLINE MOD 8015	
C-1029			0929								X	DIESEL - MOD 8015	
C-1030			0930								X	OIL - MOD 8015	
C-1031			0931								X	VOC 8260	
C-1032			0932								X	SVOC 8270	
C-1033			0933								X	8081 PESTICIDES	
C-1034			0934								X	8062 PESTICIDES	
C-1035			0935								X	TCPP - PCBs	
C-1036			0936								X	TCPP - METALS (RCRA)	
C-1037			1107								X	TOTAL METALS (RCRA)	
C-1038			1108								X	LEAD - TOTAL	
TOTAL 15												RCI - TOX	

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

NORMAL ☒

RECEIVING TEMP

THERM#

CUSTODY SEALS

BROKEN

INTACT

NOT USED

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

1 DAY ☐2 DAY ☐OTHER ☐

CARRIER BILL #

HAND DELIVERED

LABORATORY

XEROX

Harrison & Associates, Inc.
Environmental Consultants

507 N. Marlenfeld, Ste 202
Midland, TX 79701
432-687-0901

DATE: 10/12/2021 PAGE 3 OF 6
PO#: LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Palmview APT
LAI PROJECT #: 21-0105-02 COLLECTOR: DSH

Data Reported to:

TRRP report? ☐ Yes ☒ No
TIME ZONE _____
Time zone/State _____

S=SOIL W=WATER P=PAINT
A=AIR SL=SLUDGE OT=OTHER

Field Sample I.D.
M57/MW

Lab #	Date	Time	Matrix
C-1039	10/12/21	1109	S
C-1040		1110	
C-1041		1111	
C-1042		1112	
C-1043		1113	
C-1044		1114	
C-1045		1115	
C-1046		1116	
C-1047		1117	
C-1048		1118	
C-1049		1119	
C-1050		1120	
C-1051		1121	
C-1052		1122	
C-1053		1123	

of Containers

PRESERVATION
HCl HNO₃ H₂SO₄ NaOH ICE UNPRESSED

ANALYSES

BTEX	TPH 1005	TPH 1006
MTBE	DIESEL - MOD 8015	OIL - MOD 8015
VOC 8260	SVOC 8270	PAH 8270
8081 PESTICIDES	8082 PCBs	TCLP - METALS (RCRA)
TCLP - METALS (RCRA)	TCLP - PEST	TOTAL METALS (RCRA)
LEAD - TOTAL	R/C	TOX
TDS	TSS	% MOISTURE
pH	HEXAVALENT CHROMIUM	PECHLORATE
EXPLOSIVES	CHLORIDE ANIONS	ALKALINITY

FIELD NOTES

TOTAL 15

RELINQUISHED BY (Signature) _____ DATE/TIME 10/12/21

RECEIVED BY (Signature) _____

TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐

LABORATORY USE ONLY: RECEIVING TEMP _____ THERM# _____ CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # _____ ☐ HAND DELIVERED

RELINQUISHED BY (Signature) _____ DATE/TIME 10-12-21 1341

RECEIVED BY (Signature) _____

LABORATORY X1000

10/25/2021

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No. 2134

CHAIN-OF-CUSTODY

Varson & Associates, Inc.
Environmental Consultants

507 N. Martenfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 10/12/2021 PAGE 5 OF 16
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmer 151
LAI PROJECT #: 21-0105-02 COLLECTOR: DJH

TRRP report?
☐ Yes ☒ No
TIME ZONE:
Time zone/State
WST/MTM

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

PRESERVATION

HCl
HNO₃
H₂SO₄ ☐ NaOH ☐
ICE
UNPRESERVED

ANALYSES

BTEX ☒ MTBE ☒
TRPH 418 ☒ TPH 1005 ☒ TPH 1006 ☒
GASOLINE MOD 8015 ☒
DIESEL - MOD 8015 ☒
OIL - MOD 8015 ☒
VOC 8260 ☒
SVOC 8270 ☒
8081 PESTICIDES ☒ PAH 8270 ☒ HOLDPAH ☒
8082 PCBS ☒ 8151 HERBICIDES ☒
TCAP - METALS (RCRA) ☒ TCAP VOC ☒
TOTAL METALS (RCRA) ☒ TCAP VOC ☒
LEAD - TOTAL ☒ DW 200.8 ☒ TCAP ☒
RCI ☒ TOX ☒ FLASHPOINT ☒
TDS ☒ TSS ☒ % MOISTURE ☒ CYANIDE ☒
PH ☒ HEXAVALENT CHROMIUM ☒
EXPLOSIVES ☒ PENTACHLORATE ☒
CHLORIDE ☒ ANIONS ☒ ALKALINITY ☒

FIELD NOTES

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
C-1069		10/12/21	1329	S	1				X	X	X	
C-1070			1330								X	
C-1071			1331								X	
C-1072			1332								X	
C-1073			1332									
C-1074			1331									
C-1075			1335									
C-1076			1336									
C-1077			1337									
C-1078			1338									
C-1079			1339									
C-1080			1340									
C-1081			1341									
C-1082			1342									
C-1083			1343									

TOTAL 15

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

NORMAL ☒

RECEIVING TEMP

THERM#

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

1 DAY ☐CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

LABORATORY

Xtenco

2 DAY ☐☐ HAND DELIVERED

[illegible]

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s):	COC No.									
Client Contact:	Phone:	Taylor, Holly			890-460 1									
Shipping/Receiving	E-Mail:	holly.taylor@eurofins.com	State of Origin	Page:	Page 1 of 9									
Company:			New Mexico	Job #:	890-1410-1									
Eurofins Xenco		Accreditations Required (See note):		Preservation Codes										
Address:		NELAP - Louisiana, NELAP - Texas		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:										
City:	Midland	Due Date Requested		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)										
State, Zip:	TX, 79701	TAT Requested (days):												
Phone:	432-704-5440(Tel)	PO #												
Email:	WO #	Project #												
Project Name:	Palmito AST	SSOW#												
Site:														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other, BT=issue As/Al)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
C-1009 (890-1410-1)	10/12/21	09 09	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1010 (890-1410-2)	10/12/21	09 10	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1011 (890-1410-3)	10/12/21	09 11	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1012 (890-1410-4)	10/12/21	09 12	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1013 (890-1410-5)	10/12/21	09 13	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1014 (890-1410-6)	10/12/21	09 14	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1015 (890-1410-7)	10/12/21	09 15	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1016 (890-1410-8)	10/12/21	09 16	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1017 (890-1410-9)	10/12/21	09 17	Mountain	Solid		X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested: I, II, III, IV, Other (specify):														
Primary Deliverable Rank: 2														
Special Instructions/QC Requirements														
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
Empty Kit Relinquished by:														
Date:														
Time:														
Method of Shipment:														
Relinquished by: <i>DeCady</i> 16.13.21														
Date/Time:														
Company:														
Relinquished by:														
Date/Time:														
Company:														
Custody Seals Intact: Custody Seal No														
Cooler Temperature(s) °C and Other Remarks: <i>0.5/0.6</i>														

Ver: 06/08/2021

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



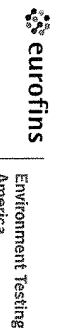
Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:
Client Contact	Phone	Taylor, Holly			890-460 2
Shipping/Receiving	E-Mail	holly.taylor@eurofinsnet.com	State of Origin	Page 2 of 9	
Company	Accreditations Required (See note):	NEIAP - Louisiana, NEIAP - Texas	New Mexico	Job #	890-1410-1
Eurofins Xenco					
Address:	Due Date Requested	10/18/2021	Analysis Requested		
1211 W Florida Ave	TAT Requested (days):				
City					
Midland					
State Zip					
TX, 79701					
Phone:	PO #				
432-704-5440(Tel)					
Email:	W/O #:				
Project Name:	Project #:	89000025			
Palmlis AST	SSOW#:				
Site:					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab, BT=Tissue Analysis)	Matrix (Water, Soil, or waste/sludge)
C-1018 (890-1410-10)	10/12/21	09 18			Solid
C-1019 (890-1410-11)	10/12/21	09 19			Solid
C-1020 (890-1410-12)	10/12/21	09 20			Solid
C-1021 (890-1410-13)	10/12/21	09 21			Solid
C-1022 (890-1410-14)	10/12/21	09 22			Solid
C-1023 (890-1410-15)	10/12/21	09 23			Solid
C-1024 (890-1410-16)	10/12/21	09 24			Solid
C-1025 (890-1410-17)	10/12/21	09 25			Solid
C-1026 (890-1410-18)	10/12/21	09 26			Solid
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2					
Empty Kit Relinquished by Date Time					
Relinquished by: <i>Clare Cuy 10.13.21</i> Date/Time: Company					
Relinquished by: Date/Time: Company					
Relinquished by: Date/Time: Company					
Custody Seals Intact: Custody Seal No					
Cooler Temperature(s) °C and Other Remarks:					
Ver 06/08/2021					

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Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



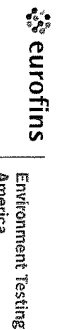
Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No										
Shipping/Receiving		Phone:	Taylor, Holly		890-460 3										
Company: Eurofins Xenco		E-Mail	holly.taylor@eurofinsnet.com	State of Origin	Page 3 of 9										
Address: 1211 W Florida Ave.		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		New Mexico	Job #: 890-1410-1										
City: Midland	TAT Requested (days):	Analysis Requested													
State Zip: TX 79701															
Phone: 432-704-5440(Tel)	PO #:														
Email:	WO #:														
Project Name: Palmiro AST	Project #:														
Site:	SSOW#:														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=solid, S=solid, O=sewage, B=issue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH		8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6036FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
C-1027 (890-1410-19)		10/12/21	09 27		Solid		X	X	X	X	X	X	X	1	
C-1028 (890-1410-20)		10/12/21	09 28		Solid		X	X	X	X	X	X	X	1	
C-1029 (890-1410-21)		10/12/21	09 29		Solid		X	X	X	X	X	X	X	1	
C-1030 (890-1410-22)		10/12/21	09 30		Solid		X	X	X	X	X	X	X	1	
C-1031 (890-1410-23)		10/12/21	09 31		Solid		X	X	X	X	X	X	X	1	
C-1032 (890-1410-24)		10/12/21	09 32		Solid		X	X	X	X	X	X	X	1	
C-1033 (890-1410-25)		10/12/21	09 33		Solid		X	X	X	X	X	X	X	1	
C-1034 (890-1410-26)		10/12/21	09 34		Solid		X	X	X	X	X	X	X	1	
C-1035 (890-1410-27)		10/12/21	09 35		Solid		X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.															
Possible Hazard Identification															
Unconfirmed															
Deliverable Requested I, II, III, IV Other (specify) Primary Deliverable Rank 2															
Empty Kit Relinquished by															
Relinquished by Date/Time Company															
Relinquished by Date/Time Company															
Relinquished by Date/Time Company															
Custody Seals Intact Custody Seal No															
Cooler Temperature(s) °C and Other Remarks:															



Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:
Client Contact		Phone:	Taylor, Holly		890-460 4
Shipping/Receiving			E-Mail: holly.taylor@eurofinsnet.com	State of Origin: New Mexico	Page 4 of 9
Company		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #:	890-1410-1
Address		Due Date Requested: 10/18/2021		Preservation Codes	
1211 W Florida Ave,		TAT Requested (days):		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsHAcO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
City: Midland					
State Zip: TX, 79701					
Phone: 432-704-5440(Tel)		PO #:			
Email:		WO #:			
Project Name: Palmic AST		Project #:			
Site:		SSOW#:			
Sample Identification - Client ID (Lab ID)					
C-1036 (890-1410-28)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)
C-1037 (890-1410-29)	10/12/21	09 36	Mountain	Solid	Perform MS/MSD (Yes or No)
C-1038 (890-1410-30)	10/12/21	11 07	Mountain	Solid	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH
C-1039 (890-1410-31)	10/12/21	11 08	Mountain	Solid	8015MOD_Calc
C-1040 (890-1410-32)	10/12/21	11 09	Mountain	Solid	300_ORGFM_28/DI_LEACH Chloride
C-1041 (890-1410-33)	10/12/21	11 10	Mountain	Solid	8021B/5035FP_Calc (MOD) BTEX - LL
C-1042 (890-1410-34)	10/12/21	11 11	Mountain	Solid	Total_BTEX_GCV
C-1043 (890-1410-35)	10/12/21	11 12	Mountain	Solid	
C-1044 (890-1410-36)	10/12/21	11 13	Mountain	Solid	
	10/12/21	11 14	Mountain	Solid	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2					
Empty Kit Relinquished by					
Relinquished by: <i>Dee Cuf</i> 10.13.21					
Relinquished by: Date/Time: Company: Received by: <i>W. Hameel</i> Date/Time: Company:					
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:					
Custody Seal Intact: Custody Seal No					
Cooler Temperature(s) °C and Other Remarks:					

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NIM 88220
Phone. 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



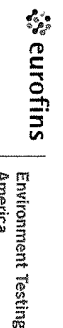
Client Information (Sub Contract Lab)		Lab PM Taylor, Holly		Carrier Tracking No(s)		COC No: 890-480 5													
Client Contact: Shipping/Receiving Company: Eurofins Xenco		Phone: holly.taylor@eurofins.com		State of Origin: New Mexico		Page: Page 5 of 9													
Address: 1211 W Florida Ave.		Due Date Requested 10/18/2021		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1410-1													
City: Midland		TAT Requested (days):		Analysis Requested															
State, Zip: TX, 79701																			
Phone: 432-704-5440(Tel)		PO #:																	
Email: 432-704-5440(Tel)		WO #:																	
Project Name: Palmito AST		Project #: 890000025																	
Site: SSOW#:																			
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=oil, ST=Stress, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers		Special Instructions/Note			
C-1045 (890-1410-37)		10/12/21		11 15		Solid		Solid		X		X		X		1			
C-1046 (890-1410-38)		10/12/21		11 16		Solid		Solid		X		X		X		1			
C-1047 (890-1410-39)		10/12/21		11 17		Solid		Solid		X		X		X		1			
C-1048 (890-1410-40)		10/12/21		11 18		Solid		Solid		X		X		X		1			
C-1049 (890-1410-41)		10/12/21		11 19		Solid		Solid		X		X		X		1			
C-1050 (890-1410-42)		10/12/21		11 20		Solid		Solid		X		X		X		1			
C-1051 (890-1410-43)		10/12/21		11 21		Solid		Solid		X		X		X		1			
C-1052 (890-1410-44)		10/12/21		11 22		Solid		Solid		X		X		X		1			
C-1053 (890-1410-45)		10/12/21		11 23		Solid		Solid		X		X		X		1			
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.																			
Possible Hazard Identification																			
Unconfirmed																			
Deliverable Requested I II III, IV, Other (specify) Primary Deliverable Rank 2																			
Empty Kit Relinquished by: Date: Time: Method of Shipment:																			
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																			
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																			
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																			
Custody Seals Intact: Custody Seal No: Cooler Temperature(s) °C and Other Remarks:																			

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



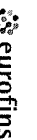
Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:						
Client Contact	Phone		Taylor Holly		890-460 6						
Shipping/Receiving	E-Mail		holly.taylor@eurofins.com	State of Origin	Page 6 of 9						
Company	Accreditations Required (See note):		NE LAP - Louisiana, NE LAP - Texas	New Mexico							
Address	Due Date Requested				Job #: 890-1410-1						
1211 W Florida Ave.	10/18/2021										
City	TAT Requested (days):										
Midland											
State, Zip											
TX 79701											
Phone	PO #										
432-704-5440(Tel)											
Email	WO #										
Project Name	Project #										
Palmito AST	89000025										
Site	SSOW#:										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested		Total Number of containers	Special Instructions/Note
C-1054 (890-1410-46)	10/12/21	11 24		Solid						1	
C-1055 (890-1410-47)	10/12/21	11 25		Solid						1	
C-1056 (890-1410-48)	10/12/21	11 26		Solid						1	
C-1057 (890-1410-49)	10/12/21	11 27		Solid						1	
C-1058 (890-1410-50)	10/12/21	13 18		Solid						1	
C-1059 (890-1410-51)	10/12/21	13 19		Solid						1	
C-1060 (890-1410-52)	10/12/21	13 20		Solid						1	
C-1061 (890-1410-53)	10/12/21	13 21		Solid						1	
C-1062 (890-1410-54)	10/12/21	13 22		Solid						1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/method being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2											
Empty Kit Relinquished by Date Time											
Relinquished by <i>Cuecy</i> 10:13:21 Date/Time Company											
Relinquished by Date/Time Company											
Custody Seals Intact: Custody Seal No											
Cooler Temperature(s) °C and Other Remarks											
Ver 06/08/2021											

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:
Client Contact:	Phone:	Taylor, Holly			890-460 7
Shipping/Receiving	E-Mail	holly.taylor@eurofinsnet.com	State of Origin		Page: 7 of 9
Company	Accreditations Required (See note)	NE LAP - Louisiana, NE LAP - Texas	New Mexico		
Address	Due Date Requested	10/18/2021			
City	TAT Requested (days):				
Midland					
State, Zip:					
TX, 79701					
Phone:	PO #:				
432-704-5440(Tel)					
Email:	WO #:				
Project Name	Project #				
Palmco AST	89000025				
Site:	SSOM#				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab, B=issue, A=AI)	Matrix (W=water, S=solid, O=oil, B=issue, A=AI)
C-1063 (890-1410-55)		10/12/21	13 23		Solid
C-1064 (890-1410-56)		10/12/21	13 24		Solid
C-1065 (890-1410-57)		10/12/21	13 25		Solid
C-1066 (890-1410-58)		10/12/21	13 26		Solid
C-1067 (890-1410-59)		10/12/21	13 27		Solid
C-1068 (890-1410-60)		10/12/21	13 28		Solid
C-1069 (890-1410-61)		10/12/21	13 29		Solid
C-1070 (890-1410-62)		10/12/21	13 30		Solid
C-1071 (890-1410-63)		10/12/21	13 31		Solid
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I, II, III, IV, Other (specify)		Primary Deliverable Rank 2		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
				☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months	
Empty Kit Relinquished by:					
Relinquished by		Date/Time	Company	Time	Method of Shipment
Cue Cort 10.13.21					
Relinquished by		Date/Time	Company	Received by	Date/Time
Relinquished by		Date/Time	Company	Received by	Date/Time
Custody Seals Intact		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:	
Δ Yes Δ No					

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No									
Client Contact:	Phone:	Taylor Holly			890-460 8									
Shipping/Receiving	E-Mail:	holly.taylor@eurofins.com	State of Origin:		Page 8 of 9									
Company:	Accreditations Required (See note):	NE LAP - Louisiana, NE LAP - Texas	New Mexico											
Eurofins Xenco	Due Date Requested	10/18/2021	Analysis Requested		Job #: 890-1410-1									
Address:	City:	Midland												
State, Zip:	TAT Requested (days):	TX, 79701												
Phone:	PO #:	432-704-5440(Tel)												
Email:	WO #:													
Project Name:	Project #:	Palmito AST												
Site:	SSOV#:	89000025												
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefl, B=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
C-1072 (890-1410-64)	10/12/21	13 32	Mountain	Solid		X	X	X	X	X	X	1		
C-1073 (890-1410-66)	10/12/21	13 32	Mountain	Solid		X	X	X	X	X	X	1		
C-1074 (890-1410-66)	10/12/21	13 34	Mountain	Solid		X	X	X	X	X	X	1		
C-1075 (890-1410-67)	10/12/21	13 35	Mountain	Solid		X	X	X	X	X	X	1		
C-1076 (890-1410-68)	10/12/21	13 36	Mountain	Solid		X	X	X	X	X	X	1		
C-1077 (890-1410-69)	10/12/21	13 37	Mountain	Solid		X	X	X	X	X	X	1		
C-1078 (890-1410-70)	10/12/21	13 38	Mountain	Solid		X	X	X	X	X	X	1		
C-1079 (890-1410-71)	10/12/21	13 39	Mountain	Solid		X	X	X	X	X	X	1		
C-1080 (890-1410-72)	10/12/21	13 40	Mountain	Solid		X	X	X	X	X	X	1		
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed Deliverable Requested I, II, III, IV Other (specify) _____ Primary Deliverable Rank 2 _____														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months														
Special Instructions/QAC Requirements														
Empty Kit Relinquished by Relinquished by: _____ Date/Time: _____ Company: _____														
Relinquished by: _____ Date/Time: _____ Company: _____														
Relinquished by: _____ Date/Time: _____ Company: _____														
Custody Seals Intact: _____ Custody Seal No _____														
Cooler Temperature(s) °C and Other Remarks: _____														

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



**Environment Testing
America**

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1410-1

SDG Number: 21-0105-02

Login Number: 1410

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1410-1

SDG Number: 21-0105-02

Login Number: 1410

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 10/13/21 12:15 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5/0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1412-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/26/2021 6:02:51 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1412-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Job ID: 890-1412-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1412-1

Comments

No additional comments.

Receipt

The samples were received on 10/13/2021 3:43 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0° C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-1109 (890-1412-21), C-1110 (890-1412-22), C-1111 (890-1412-23), C-1113 (890-1412-25), C-1114 (890-1412-26), C-1119 (890-1412-31), (MB 880-9758/5-A) and (MB 880-9936/8). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9758 and analytical batch 880-9936 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9758 and analytical batch 880-9936 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-1112 (890-1412-24), C-1116 (890-1412-28) and C-1118 (890-1412-30). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10378 and analytical batch 880-10380 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: C-1104 (890-1412-16), C-1105 (890-1412-17) and (MB 880-10060/1-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: C-1109 (890-1412-21), C-1110 (890-1412-22), C-1111 (890-1412-23), C-1112 (890-1412-24), C-1115 (890-1412-27), C-1116 (890-1412-28), C-1118 (890-1412-30), C-1121 (890-1412-33), C-1128 (890-1412-40) and (MB 880-10090/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-9718 and analytical batch 880-9837 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1089

Lab Sample ID: 890-1412-1

Date Collected: 10/13/21 08:19

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 14:59	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 14:59	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 14:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/18/21 14:16	10/20/21 14:59	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 14:59	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/18/21 14:16	10/20/21 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/18/21 14:16	10/20/21 14:59	1
1,4-Difluorobenzene (Surr)	110		70 - 130	10/18/21 14:16	10/20/21 14:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 16:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 16:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	10/21/21 09:06	10/21/21 16:32	1
o-Terphenyl	120		70 - 130	10/21/21 09:06	10/21/21 16:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1260		25.2	mg/Kg			10/19/21 14:59	5

Client Sample ID: C-1090

Lab Sample ID: 890-1412-2

Date Collected: 10/13/21 08:20

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 15:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 15:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 15:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:16	10/20/21 15:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 15:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:16	10/20/21 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	10/18/21 14:16	10/20/21 15:20	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/18/21 14:16	10/20/21 15:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1090

Lab Sample ID: 890-1412-2

Date Collected: 10/13/21 08:20

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 17:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 17:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/21/21 09:06	10/21/21 17:34	1
o-Terphenyl	126		70 - 130			10/21/21 09:06	10/21/21 17:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1460		25.2	mg/Kg			10/19/21 15:06	5

Client Sample ID: C-1091

Lab Sample ID: 890-1412-3

Date Collected: 10/13/21 08:21

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 15:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 15:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 15:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/18/21 14:16	10/20/21 15:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 15:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/18/21 14:16	10/20/21 15:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130			10/18/21 14:16	10/20/21 15:40	1
1,4-Difluorobenzene (Surr)	76		70 - 130			10/18/21 14:16	10/20/21 15:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 17:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 17:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1091

Lab Sample ID: 890-1412-3

Date Collected: 10/13/21 08:21

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/21/21 09:06	10/21/21 17:55	1
o-Terphenyl	124		70 - 130			10/21/21 09:06	10/21/21 17:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	960		4.97	mg/Kg			10/19/21 15:12	1

Client Sample ID: C-1092

Lab Sample ID: 890-1412-4

Date Collected: 10/13/21 08:22

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 16:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 16:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 16:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:16	10/20/21 16:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 16:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:16	10/20/21 16:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			10/18/21 14:16	10/20/21 16:01	1
1,4-Difluorobenzene (Surr)	116		70 - 130			10/18/21 14:16	10/20/21 16:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 18:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 18:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 18:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/21/21 09:06	10/21/21 18:16	1
o-Terphenyl	126		70 - 130			10/21/21 09:06	10/21/21 18:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1940		25.0	mg/Kg			10/19/21 15:18	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1093

Lab Sample ID: 890-1412-5

Date Collected: 10/13/21 08:23

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:16	10/20/21 16:21	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:16	10/20/21 16:21	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:16	10/20/21 16:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/18/21 14:16	10/20/21 16:21	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:16	10/20/21 16:21	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/18/21 14:16	10/20/21 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/18/21 14:16	10/20/21 16:21	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/18/21 14:16	10/20/21 16:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 18:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 18:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	10/21/21 09:06	10/21/21 18:37	1
o-Terphenyl	130		70 - 130	10/21/21 09:06	10/21/21 18:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	511		4.95	mg/Kg			10/19/21 16:47	1

Client Sample ID: C-1094

Lab Sample ID: 890-1412-6

Date Collected: 10/13/21 08:24

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 16:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 16:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 16:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:16	10/20/21 16:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 16:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:16	10/20/21 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/18/21 14:16	10/20/21 16:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/18/21 14:16	10/20/21 16:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1094

Lab Sample ID: 890-1412-6

Date Collected: 10/13/21 08:24

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 18:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 18:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/21/21 09:06	10/21/21 18:57	1
o-Terphenyl	125		70 - 130			10/21/21 09:06	10/21/21 18:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	704		5.03	mg/Kg			10/19/21 17:06	1

Client Sample ID: C-1095

Lab Sample ID: 890-1412-7

Date Collected: 10/13/21 08:25

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 17:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 17:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 17:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:16	10/20/21 17:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 17:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:16	10/20/21 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			10/18/21 14:16	10/20/21 17:02	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/18/21 14:16	10/20/21 17:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 19:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 19:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1095

Lab Sample ID: 890-1412-7

Date Collected: 10/13/21 08:25

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 19:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/21/21 09:06	10/21/21 19:18	1
o-Terphenyl	125		70 - 130			10/21/21 09:06	10/21/21 19:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	805		5.03	mg/Kg			10/19/21 17:12	1

Client Sample ID: C-1096

Lab Sample ID: 890-1412-8

Date Collected: 10/13/21 08:26

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/18/21 14:16	10/20/21 17:22	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/18/21 14:16	10/20/21 17:22	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/18/21 14:16	10/20/21 17:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/18/21 14:16	10/20/21 17:22	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/18/21 14:16	10/20/21 17:22	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/18/21 14:16	10/20/21 17:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			10/18/21 14:16	10/20/21 17:22	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/18/21 14:16	10/20/21 17:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 19:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 19:39	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 19:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/21/21 09:06	10/21/21 19:39	1
o-Terphenyl	121		70 - 130			10/21/21 09:06	10/21/21 19:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		5.01	mg/Kg			10/19/21 17:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1097

Lab Sample ID: 890-1412-9

Date Collected: 10/13/21 08:27

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 17:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 17:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 17:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/18/21 14:16	10/20/21 17:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 17:43	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/18/21 14:16	10/20/21 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	10/18/21 14:16	10/20/21 17:43	1
1,4-Difluorobenzene (Surr)	87		70 - 130	10/18/21 14:16	10/20/21 17:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 19:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 19:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	10/21/21 09:06	10/21/21 19:59	1
o-Terphenyl	127		70 - 130	10/21/21 09:06	10/21/21 19:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		4.95	mg/Kg			10/19/21 17:25	1

Client Sample ID: C-1098

Lab Sample ID: 890-1412-10

Date Collected: 10/13/21 08:28

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 18:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 18:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 18:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:16	10/20/21 18:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 18:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:16	10/20/21 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/18/21 14:16	10/20/21 18:03	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/18/21 14:16	10/20/21 18:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1098

Lab Sample ID: 890-1412-10

Date Collected: 10/13/21 08:28

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 20:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 20:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 20:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/21/21 09:06	10/21/21 20:20	1
o-Terphenyl	128		70 - 130			10/21/21 09:06	10/21/21 20:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	853		5.04	mg/Kg			10/19/21 17:44	1

Client Sample ID: C-1099

Lab Sample ID: 890-1412-11

Date Collected: 10/13/21 08:29

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 19:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 19:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 19:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/18/21 14:16	10/20/21 19:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 19:53	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/18/21 14:16	10/20/21 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			10/18/21 14:16	10/20/21 19:53	1
1,4-Difluorobenzene (Surr)	110		70 - 130			10/18/21 14:16	10/20/21 19:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 21:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 21:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1099

Lab Sample ID: 890-1412-11

Date Collected: 10/13/21 08:29

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 21:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/21/21 09:06	10/21/21 21:02	1
o-Terphenyl	127		70 - 130			10/21/21 09:06	10/21/21 21:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	711		4.99	mg/Kg			10/19/21 17:50	1

Client Sample ID: C-1100

Lab Sample ID: 890-1412-12

Date Collected: 10/13/21 08:30

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00216		0.00200	mg/Kg		10/18/21 14:16	10/20/21 20:13	1
Toluene	0.00390		0.00200	mg/Kg		10/18/21 14:16	10/20/21 20:13	1
Ethylbenzene	0.00374		0.00200	mg/Kg		10/18/21 14:16	10/20/21 20:13	1
m-Xylene & p-Xylene	0.00404		0.00399	mg/Kg		10/18/21 14:16	10/20/21 20:13	1
o-Xylene	0.00869		0.00200	mg/Kg		10/18/21 14:16	10/20/21 20:13	1
Xylenes, Total	0.0127		0.00399	mg/Kg		10/18/21 14:16	10/20/21 20:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			10/18/21 14:16	10/20/21 20:13	1
1,4-Difluorobenzene (Surr)	90		70 - 130			10/18/21 14:16	10/20/21 20:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0225		0.00399	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 21:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 21:23	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 21:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/21/21 09:06	10/21/21 21:23	1
o-Terphenyl	128		70 - 130			10/21/21 09:06	10/21/21 21:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		4.97	mg/Kg			10/19/21 17:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1101

Lab Sample ID: 890-1412-13

Date Collected: 10/13/21 08:31

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 20:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 20:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 20:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/18/21 14:16	10/20/21 20:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 20:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/18/21 14:16	10/20/21 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	10/18/21 14:16	10/20/21 20:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/18/21 14:16	10/20/21 20:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 21:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 21:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	10/21/21 09:06	10/21/21 21:43	1
o-Terphenyl	124		70 - 130	10/21/21 09:06	10/21/21 21:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	549		5.05	mg/Kg			10/19/21 18:02	1

Client Sample ID: C-1102

Lab Sample ID: 890-1412-14

Date Collected: 10/13/21 08:32

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 20:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 20:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 20:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/18/21 14:16	10/20/21 20:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 20:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/18/21 14:16	10/20/21 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	10/18/21 14:16	10/20/21 20:54	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/18/21 14:16	10/20/21 20:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1102

Lab Sample ID: 890-1412-14

Date Collected: 10/13/21 08:32

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 22:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 22:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 22:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/21/21 09:06	10/21/21 22:04	1
o-Terphenyl	127		70 - 130			10/21/21 09:06	10/21/21 22:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	404		5.00	mg/Kg			10/19/21 18:09	1

Client Sample ID: C-1103

Lab Sample ID: 890-1412-15

Date Collected: 10/13/21 08:33

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 21:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 21:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 21:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/18/21 14:16	10/20/21 21:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 21:14	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/18/21 14:16	10/20/21 21:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			10/18/21 14:16	10/20/21 21:14	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/18/21 14:16	10/20/21 21:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 22:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 22:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1103

Lab Sample ID: 890-1412-15

Date Collected: 10/13/21 08:33

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 22:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/21/21 09:06	10/21/21 22:25	1
o-Terphenyl	125		70 - 130			10/21/21 09:06	10/21/21 22:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		5.01	mg/Kg			10/19/21 18:15	1

Client Sample ID: C-1104

Lab Sample ID: 890-1412-16

Date Collected: 10/13/21 08:34

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 21:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 21:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 21:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:16	10/20/21 21:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:16	10/20/21 21:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:16	10/20/21 21:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			10/18/21 14:16	10/20/21 21:35	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/18/21 14:16	10/20/21 21:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 22:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 22:46	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/21/21 09:06	10/21/21 22:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/21/21 09:06	10/21/21 22:46	1
o-Terphenyl	131	S1+	70 - 130			10/21/21 09:06	10/21/21 22:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		4.97	mg/Kg			10/19/21 18:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1105

Lab Sample ID: 890-1412-17

Date Collected: 10/13/21 08:35

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 21:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 21:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 21:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/18/21 14:16	10/20/21 21:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 21:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/18/21 14:16	10/20/21 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/18/21 14:16	10/20/21 21:55	1
1,4-Difluorobenzene (Surr)	121		70 - 130	10/18/21 14:16	10/20/21 21:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 23:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 23:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	10/21/21 09:06	10/21/21 23:07	1
o-Terphenyl	152	S1+	70 - 130	10/21/21 09:06	10/21/21 23:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		4.99	mg/Kg			10/19/21 18:40	1

Client Sample ID: C-1106

Lab Sample ID: 890-1412-18

Date Collected: 10/13/21 08:36

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:16	10/20/21 22:16	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:16	10/20/21 22:16	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:16	10/20/21 22:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/18/21 14:16	10/20/21 22:16	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:16	10/20/21 22:16	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/18/21 14:16	10/20/21 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	10/18/21 14:16	10/20/21 22:16	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/18/21 14:16	10/20/21 22:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1106

Lab Sample ID: 890-1412-18

Date Collected: 10/13/21 08:36

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 23:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 23:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 23:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/21/21 09:06	10/21/21 23:27	1
o-Terphenyl	128		70 - 130			10/21/21 09:06	10/21/21 23:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	824		4.96	mg/Kg			10/19/21 18:59	1

Client Sample ID: C-1107

Lab Sample ID: 890-1412-19

Date Collected: 10/13/21 08:37

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 22:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 22:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 22:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/18/21 14:16	10/20/21 22:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 22:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/18/21 14:16	10/20/21 22:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			10/18/21 14:16	10/20/21 22:36	1
1,4-Difluorobenzene (Surr)	91		70 - 130			10/18/21 14:16	10/20/21 22:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 23:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 23:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1107

Lab Sample ID: 890-1412-19

Date Collected: 10/13/21 08:37

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 09:06	10/21/21 23:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/21/21 09:06	10/21/21 23:48	1
o-Terphenyl	125		70 - 130			10/21/21 09:06	10/21/21 23:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	506		5.04	mg/Kg			10/19/21 19:06	1

Client Sample ID: C-1108

Lab Sample ID: 890-1412-20

Date Collected: 10/13/21 11:18

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 22:56	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 22:56	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 22:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/18/21 14:16	10/20/21 22:56	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:16	10/20/21 22:56	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/18/21 14:16	10/20/21 22:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			10/18/21 14:16	10/20/21 22:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/18/21 14:16	10/20/21 22:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/22/21 00:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/22/21 00:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/22/21 00:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/21/21 09:06	10/22/21 00:09	1
o-Terphenyl	125		70 - 130			10/21/21 09:06	10/22/21 00:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	819		4.97	mg/Kg			10/19/21 19:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1109

Lab Sample ID: 890-1412-21

Date Collected: 10/13/21 11:19

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		10/18/21 14:19	10/21/21 04:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 04:02	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		10/18/21 14:19	10/21/21 04:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 04:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 04:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	10/18/21 14:19	10/21/21 04:02	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	10/18/21 14:19	10/21/21 04:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 16:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 16:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	10/21/21 11:40	10/21/21 16:32	1
o-Terphenyl	133	S1+	70 - 130	10/21/21 11:40	10/21/21 16:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	535		5.04	mg/Kg			10/19/21 19:18	1

Client Sample ID: C-1110

Lab Sample ID: 890-1412-22

Date Collected: 10/13/21 11:20

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 04:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 04:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 04:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/18/21 14:19	10/21/21 04:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 04:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/18/21 14:19	10/21/21 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	10/18/21 14:19	10/21/21 04:28	1
1,4-Difluorobenzene (Surr)	72		70 - 130	10/18/21 14:19	10/21/21 04:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1110

Lab Sample ID: 890-1412-22

Date Collected: 10/13/21 11:20

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 17:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 17:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			10/21/21 11:40	10/21/21 17:34	1
o-Terphenyl	143	S1+	70 - 130			10/21/21 11:40	10/21/21 17:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	855		5.03	mg/Kg			10/19/21 19:25	1

Client Sample ID: C-1111

Lab Sample ID: 890-1412-23

Date Collected: 10/13/21 11:21

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 04:55	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 04:55	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 04:55	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/18/21 14:19	10/21/21 04:55	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 04:55	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/18/21 14:19	10/21/21 04:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			10/18/21 14:19	10/21/21 04:55	1
1,4-Difluorobenzene (Surr)	71		70 - 130			10/18/21 14:19	10/21/21 04:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 17:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 17:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1111

Lab Sample ID: 890-1412-23

Date Collected: 10/13/21 11:21

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			10/21/21 11:40	10/21/21 17:55	1
o-Terphenyl	139	S1+	70 - 130			10/21/21 11:40	10/21/21 17:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		4.97	mg/Kg			10/19/21 19:31	1

Client Sample ID: C-1112

Lab Sample ID: 890-1412-24

Date Collected: 10/13/21 11:22

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 05:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 05:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 05:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/18/21 14:19	10/21/21 05:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 05:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/18/21 14:19	10/21/21 05:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			10/18/21 14:19	10/21/21 05:21	1
1,4-Difluorobenzene (Surr)	72		70 - 130			10/18/21 14:19	10/21/21 05:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 18:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 18:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 18:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			10/21/21 11:40	10/21/21 18:16	1
o-Terphenyl	134	S1+	70 - 130			10/21/21 11:40	10/21/21 18:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	247		5.01	mg/Kg			10/19/21 02:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1113

Lab Sample ID: 890-1412-25

Date Collected: 10/13/21 11:23

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 05:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 05:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 05:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 05:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 05:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 05:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	225	S1+	70 - 130	10/18/21 14:19	10/21/21 05:48	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/18/21 14:19	10/21/21 05:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 18:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 18:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	10/21/21 11:40	10/21/21 18:37	1
o-Terphenyl	126		70 - 130	10/21/21 11:40	10/21/21 18:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1280		4.95	mg/Kg			10/19/21 03:01	1

Client Sample ID: C-1114

Lab Sample ID: 890-1412-26

Date Collected: 10/13/21 11:24

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 06:14	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 06:14	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 06:14	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/18/21 14:19	10/21/21 06:14	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 06:14	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/18/21 14:19	10/21/21 06:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	10/18/21 14:19	10/21/21 06:14	1
1,4-Difluorobenzene (Surr)	80		70 - 130	10/18/21 14:19	10/21/21 06:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1114

Lab Sample ID: 890-1412-26

Date Collected: 10/13/21 11:24

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 18:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 18:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/21/21 11:40	10/21/21 18:57	1
o-Terphenyl	130		70 - 130			10/21/21 11:40	10/21/21 18:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	238		5.04	mg/Kg			10/19/21 03:18	1

Client Sample ID: C-1115

Lab Sample ID: 890-1412-27

Date Collected: 10/13/21 11:25

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 06:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 06:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 06:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 06:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 06:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 06:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			10/18/21 14:19	10/21/21 06:42	1
1,4-Difluorobenzene (Surr)	74		70 - 130			10/18/21 14:19	10/21/21 06:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 19:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 19:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1115

Lab Sample ID: 890-1412-27

Date Collected: 10/13/21 11:25

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 19:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			10/21/21 11:40	10/21/21 19:18	1
o-Terphenyl	132	S1+	70 - 130			10/21/21 11:40	10/21/21 19:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		4.99	mg/Kg			10/19/21 03:23	1

Client Sample ID: C-1116

Lab Sample ID: 890-1412-28

Date Collected: 10/13/21 11:26

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 07:08	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 07:08	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 07:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/18/21 14:19	10/21/21 07:08	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 07:08	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/18/21 14:19	10/21/21 07:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			10/18/21 14:19	10/21/21 07:08	1
1,4-Difluorobenzene (Surr)	74		70 - 130			10/18/21 14:19	10/21/21 07:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 19:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 19:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 19:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130			10/21/21 11:40	10/21/21 19:39	1
o-Terphenyl	151	S1+	70 - 130			10/21/21 11:40	10/21/21 19:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	345		4.97	mg/Kg			10/19/21 03:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1117

Lab Sample ID: 890-1412-29

Date Collected: 10/13/21 11:27

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 07:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 07:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 07:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/18/21 14:19	10/21/21 07:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 07:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/18/21 14:19	10/21/21 07:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	10/18/21 14:19	10/21/21 07:33	1
1,4-Difluorobenzene (Surr)	80		70 - 130	10/18/21 14:19	10/21/21 07:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 19:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 19:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	10/21/21 11:40	10/21/21 19:59	1
o-Terphenyl	117		70 - 130	10/21/21 11:40	10/21/21 19:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		5.05	mg/Kg			10/19/21 03:34	1

Client Sample ID: C-1118

Lab Sample ID: 890-1412-30

Date Collected: 10/13/21 11:28

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 07:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 07:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 07:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/18/21 14:19	10/21/21 07:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 07:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/18/21 14:19	10/21/21 07:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	10/18/21 14:19	10/21/21 07:58	1
1,4-Difluorobenzene (Surr)	82		70 - 130	10/18/21 14:19	10/21/21 07:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1118

Lab Sample ID: 890-1412-30

Date Collected: 10/13/21 11:28

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 20:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 20:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 20:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130			10/21/21 11:40	10/21/21 20:20	1
o-Terphenyl	165	S1+	70 - 130			10/21/21 11:40	10/21/21 20:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	924		5.00	mg/Kg			10/19/21 03:40	1

Client Sample ID: C-1119

Lab Sample ID: 890-1412-31

Date Collected: 10/13/21 11:29

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 09:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 09:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 09:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 09:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 09:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 09:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			10/18/21 14:19	10/21/21 09:41	1
1,4-Difluorobenzene (Surr)	79		70 - 130			10/18/21 14:19	10/21/21 09:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 21:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 21:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1119

Lab Sample ID: 890-1412-31

Date Collected: 10/13/21 11:29

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 21:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			10/21/21 11:40	10/21/21 21:02	1
o-Terphenyl	119		70 - 130			10/21/21 11:40	10/21/21 21:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2730		25.1	mg/Kg			10/19/21 03:45	5

Client Sample ID: C-1120

Lab Sample ID: 890-1412-32

Date Collected: 10/13/21 11:30

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:19	10/21/21 10:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:19	10/21/21 10:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:19	10/21/21 10:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/18/21 14:19	10/21/21 10:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:19	10/21/21 10:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/18/21 14:19	10/21/21 10:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			10/18/21 14:19	10/21/21 10:07	1
1,4-Difluorobenzene (Surr)	73		70 - 130			10/18/21 14:19	10/21/21 10:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/21/21 11:40	10/21/21 21:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/21/21 11:40	10/21/21 21:23	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/21/21 11:40	10/21/21 21:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/21/21 11:40	10/21/21 21:23	1
o-Terphenyl	120		70 - 130			10/21/21 11:40	10/21/21 21:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		24.9	mg/Kg			10/19/21 04:02	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1121

Lab Sample ID: 890-1412-33

Date Collected: 10/13/21 11:31

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 10:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 10:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 10:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 10:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 10:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 10:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	10/18/21 14:19	10/21/21 10:33	1
1,4-Difluorobenzene (Surr)	87		70 - 130	10/18/21 14:19	10/21/21 10:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 21:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 21:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	10/21/21 11:40	10/21/21 21:43	1
o-Terphenyl	137	S1+	70 - 130	10/21/21 11:40	10/21/21 21:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8720		49.9	mg/Kg			10/19/21 04:08	10

Client Sample ID: C-1122

Lab Sample ID: 890-1412-34

Date Collected: 10/13/21 11:32

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 10:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 10:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 10:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/18/21 14:19	10/21/21 10:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 10:59	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/18/21 14:19	10/21/21 10:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/18/21 14:19	10/21/21 10:59	1
1,4-Difluorobenzene (Surr)	89		70 - 130	10/18/21 14:19	10/21/21 10:59	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1122

Lab Sample ID: 890-1412-34

Date Collected: 10/13/21 11:32

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 22:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 22:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 22:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/21/21 11:40	10/21/21 22:04	1
o-Terphenyl	118		70 - 130			10/21/21 11:40	10/21/21 22:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4600		24.8	mg/Kg			10/19/21 04:25	5

Client Sample ID: C-1123

Lab Sample ID: 890-1412-35

Date Collected: 10/13/21 11:33

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 11:25	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 11:25	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 11:25	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/18/21 14:19	10/21/21 11:25	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/18/21 14:19	10/21/21 11:25	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/18/21 14:19	10/21/21 11:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			10/18/21 14:19	10/21/21 11:25	1
1,4-Difluorobenzene (Surr)	96		70 - 130			10/18/21 14:19	10/21/21 11:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 22:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 22:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1123

Lab Sample ID: 890-1412-35

Date Collected: 10/13/21 11:33

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 22:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			10/21/21 11:40	10/21/21 22:25	1
o-Terphenyl	128		70 - 130			10/21/21 11:40	10/21/21 22:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2660		25.2	mg/Kg			10/19/21 04:31	5

Client Sample ID: C-1124

Lab Sample ID: 890-1412-36

Date Collected: 10/13/21 11:34

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 11:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 11:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 11:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 11:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 11:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 11:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			10/18/21 14:19	10/21/21 11:51	1
1,4-Difluorobenzene (Surr)	83		70 - 130			10/18/21 14:19	10/21/21 11:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/21/21 11:40	10/21/21 22:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/21/21 11:40	10/21/21 22:46	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/21/21 11:40	10/21/21 22:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			10/21/21 11:40	10/21/21 22:46	1
o-Terphenyl	125		70 - 130			10/21/21 11:40	10/21/21 22:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1880		24.9	mg/Kg			10/19/21 04:36	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1125

Lab Sample ID: 890-1412-37

Date Collected: 10/13/21 11:35

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 12:17	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 12:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 12:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 12:17	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 12:17	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	10/18/21 14:19	10/21/21 12:17	1
1,4-Difluorobenzene (Surr)	84		70 - 130	10/18/21 14:19	10/21/21 12:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 23:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 23:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	10/21/21 11:40	10/21/21 23:07	1
o-Terphenyl	122		70 - 130	10/21/21 11:40	10/21/21 23:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2320		25.2	mg/Kg			10/19/21 04:42	5

Client Sample ID: C-1126

Lab Sample ID: 890-1412-38

Date Collected: 10/13/21 11:36

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:19	10/21/21 12:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:19	10/21/21 12:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:19	10/21/21 12:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/18/21 14:19	10/21/21 12:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:19	10/21/21 12:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/18/21 14:19	10/21/21 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	10/18/21 14:19	10/21/21 12:42	1
1,4-Difluorobenzene (Surr)	89		70 - 130	10/18/21 14:19	10/21/21 12:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1126

Lab Sample ID: 890-1412-38

Date Collected: 10/13/21 11:36

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 23:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 23:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 23:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/21/21 11:40	10/21/21 23:27	1
o-Terphenyl	121		70 - 130			10/21/21 11:40	10/21/21 23:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5770		25.2	mg/Kg			10/19/21 04:47	5

Client Sample ID: C-1127

Lab Sample ID: 890-1412-39

Date Collected: 10/13/21 11:37

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:19	10/21/21 13:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:19	10/21/21 13:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:19	10/21/21 13:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/18/21 14:19	10/21/21 13:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:19	10/21/21 13:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/18/21 14:19	10/21/21 13:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			10/18/21 14:19	10/21/21 13:08	1
1,4-Difluorobenzene (Surr)	90		70 - 130			10/18/21 14:19	10/21/21 13:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 23:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 23:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1127

Lab Sample ID: 890-1412-39

Date Collected: 10/13/21 11:37

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 11:40	10/21/21 23:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			10/21/21 11:40	10/21/21 23:48	1
o-Terphenyl	117		70 - 130			10/21/21 11:40	10/21/21 23:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	535		4.97	mg/Kg			10/19/21 04:53	1

Client Sample ID: C-1128

Lab Sample ID: 890-1412-40

Date Collected: 10/13/21 11:38

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 13:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 13:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 13:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 13:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:19	10/21/21 13:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/21 14:19	10/21/21 13:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			10/18/21 14:19	10/21/21 13:34	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/18/21 14:19	10/21/21 13:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/21/21 11:40	10/22/21 00:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/21/21 11:40	10/22/21 00:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/21/21 11:40	10/22/21 00:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			10/21/21 11:40	10/22/21 00:09	1
o-Terphenyl	133	S1+	70 - 130			10/21/21 11:40	10/22/21 00:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3110		25.0	mg/Kg			10/19/21 04:59	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1129

Lab Sample ID: 890-1412-41

Date Collected: 10/13/21 11:39

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		10/19/21 15:01	10/21/21 03:35	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		10/19/21 15:01	10/21/21 03:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/19/21 15:01	10/21/21 03:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/19/21 15:01	10/21/21 03:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/19/21 15:01	10/21/21 03:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/19/21 15:01	10/21/21 03:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	10/19/21 15:01	10/21/21 03:35	1
1,4-Difluorobenzene (Surr)	86		70 - 130	10/19/21 15:01	10/21/21 03:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 12:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 12:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	10/20/21 11:12	10/20/21 12:45	1
o-Terphenyl	117		70 - 130	10/20/21 11:12	10/20/21 12:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6090	F1	49.5	mg/Kg			10/21/21 01:53	10

Client Sample ID: C-1130

Lab Sample ID: 890-1412-42

Date Collected: 10/13/21 11:40

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 03:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 03:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 03:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/19/21 15:01	10/21/21 03:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 03:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/19/21 15:01	10/21/21 03:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	10/19/21 15:01	10/21/21 03:55	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/19/21 15:01	10/21/21 03:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1130

Lab Sample ID: 890-1412-42

Date Collected: 10/13/21 11:40

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 13:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 13:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 13:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			10/20/21 11:12	10/20/21 13:49	1
o-Terphenyl	123		70 - 130			10/20/21 11:12	10/20/21 13:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3450		25.2	mg/Kg			10/21/21 02:15	5

Client Sample ID: C-1131

Lab Sample ID: 890-1412-43

Date Collected: 10/13/21 11:41

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 04:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 04:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 04:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/19/21 15:01	10/21/21 04:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 04:15	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/19/21 15:01	10/21/21 04:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			10/19/21 15:01	10/21/21 04:15	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130			10/19/21 15:01	10/21/21 04:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 14:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1131

Lab Sample ID: 890-1412-43

Date Collected: 10/13/21 11:41

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 14:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/20/21 11:12	10/20/21 14:10	1
o-Terphenyl	110		70 - 130			10/20/21 11:12	10/20/21 14:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8620		50.3	mg/Kg			10/21/21 02:22	10

Client Sample ID: C-1132

Lab Sample ID: 890-1412-44

Date Collected: 10/13/21 11:42

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/19/21 15:01	10/21/21 04:36	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/19/21 15:01	10/21/21 04:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/19/21 15:01	10/21/21 04:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/19/21 15:01	10/21/21 04:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/19/21 15:01	10/21/21 04:36	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/19/21 15:01	10/21/21 04:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			10/19/21 15:01	10/21/21 04:36	1
1,4-Difluorobenzene (Surr)	76		70 - 130			10/19/21 15:01	10/21/21 04:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 14:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 14:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/20/21 11:12	10/20/21 14:32	1
o-Terphenyl	115		70 - 130			10/20/21 11:12	10/20/21 14:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4320		25.1	mg/Kg			10/21/21 02:29	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1133

Lab Sample ID: 890-1412-45

Date Collected: 10/13/21 11:43

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/19/21 15:01	10/21/21 04:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/19/21 15:01	10/21/21 04:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/19/21 15:01	10/21/21 04:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/19/21 15:01	10/21/21 04:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/19/21 15:01	10/21/21 04:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/19/21 15:01	10/21/21 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	10/19/21 15:01	10/21/21 04:56	1
1,4-Difluorobenzene (Surr)	77		70 - 130	10/19/21 15:01	10/21/21 04:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 14:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 14:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	10/20/21 11:12	10/20/21 14:52	1
o-Terphenyl	122		70 - 130	10/20/21 11:12	10/20/21 14:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1880		24.8	mg/Kg			10/21/21 02:36	5

Client Sample ID: C-1134

Lab Sample ID: 890-1412-46

Date Collected: 10/13/21 11:44

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 05:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 05:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 05:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/19/21 15:01	10/21/21 05:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 05:17	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/19/21 15:01	10/21/21 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/19/21 15:01	10/21/21 05:17	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/19/21 15:01	10/21/21 05:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1134

Lab Sample ID: 890-1412-46

Date Collected: 10/13/21 11:44

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 15:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 15:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 15:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/20/21 11:12	10/20/21 15:14	1
o-Terphenyl	112		70 - 130			10/20/21 11:12	10/20/21 15:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2460		25.2	mg/Kg			10/21/21 02:58	5

Client Sample ID: C-1135

Lab Sample ID: 890-1412-47

Date Collected: 10/13/21 11:45

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/19/21 15:01	10/21/21 05:37	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/19/21 15:01	10/21/21 05:37	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/19/21 15:01	10/21/21 05:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/19/21 15:01	10/21/21 05:37	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/19/21 15:01	10/21/21 05:37	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/19/21 15:01	10/21/21 05:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			10/19/21 15:01	10/21/21 05:37	1
1,4-Difluorobenzene (Surr)	87		70 - 130			10/19/21 15:01	10/21/21 05:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 15:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 15:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1135

Lab Sample ID: 890-1412-47

Date Collected: 10/13/21 11:45

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/20/21 11:12	10/20/21 15:35	1
o-Terphenyl	118		70 - 130			10/20/21 11:12	10/20/21 15:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		25.0	mg/Kg			10/21/21 03:05	5

Client Sample ID: C-1136

Lab Sample ID: 890-1412-48

Date Collected: 10/13/21 11:46

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 05:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 05:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 05:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/19/21 15:01	10/21/21 05:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 05:57	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/19/21 15:01	10/21/21 05:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			10/19/21 15:01	10/21/21 05:57	1
1,4-Difluorobenzene (Surr)	75		70 - 130			10/19/21 15:01	10/21/21 05:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 15:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 15:56	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 15:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			10/20/21 11:12	10/20/21 15:56	1
o-Terphenyl	126		70 - 130			10/20/21 11:12	10/20/21 15:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1630		24.9	mg/Kg			10/21/21 03:12	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1137

Lab Sample ID: 890-1412-49

Date Collected: 10/13/21 11:47

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/19/21 15:01	10/21/21 06:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/19/21 15:01	10/21/21 06:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/19/21 15:01	10/21/21 06:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/19/21 15:01	10/21/21 06:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/19/21 15:01	10/21/21 06:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/19/21 15:01	10/21/21 06:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	10/19/21 15:01	10/21/21 06:18	1
1,4-Difluorobenzene (Surr)	70		70 - 130	10/19/21 15:01	10/21/21 06:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 16:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 16:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	10/20/21 11:12	10/20/21 16:17	1
o-Terphenyl	121		70 - 130	10/20/21 11:12	10/20/21 16:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	794		5.05	mg/Kg			10/21/21 03:19	1

Client Sample ID: C-1138

Lab Sample ID: 890-1412-50

Date Collected: 10/13/21 12:58

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/19/21 15:01	10/21/21 06:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/19/21 15:01	10/21/21 06:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/19/21 15:01	10/21/21 06:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/19/21 15:01	10/21/21 06:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/19/21 15:01	10/21/21 06:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/19/21 15:01	10/21/21 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	10/19/21 15:01	10/21/21 06:38	1
1,4-Difluorobenzene (Surr)	73		70 - 130	10/19/21 15:01	10/21/21 06:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1138

Lab Sample ID: 890-1412-50

Date Collected: 10/13/21 12:58

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 16:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 16:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 16:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/20/21 11:12	10/20/21 16:38	1
o-Terphenyl	122		70 - 130			10/20/21 11:12	10/20/21 16:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		5.00	mg/Kg			10/21/21 03:26	1

Client Sample ID: C-1139

Lab Sample ID: 890-1412-51

Date Collected: 10/13/21 12:59

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		10/25/21 10:28	10/26/21 01:30	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		10/25/21 10:28	10/26/21 01:30	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		10/25/21 10:28	10/26/21 01:30	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398	mg/Kg		10/25/21 10:28	10/26/21 01:30	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		10/25/21 10:28	10/26/21 01:30	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		10/25/21 10:28	10/26/21 01:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/25/21 10:28	10/26/21 01:30	1
1,4-Difluorobenzene (Surr)	101		70 - 130			10/25/21 10:28	10/26/21 01:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 17:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 17:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1139

Lab Sample ID: 890-1412-51

Date Collected: 10/13/21 12:59

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 17:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			10/20/21 11:12	10/20/21 17:20	1
o-Terphenyl	125		70 - 130			10/20/21 11:12	10/20/21 17:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		5.01	mg/Kg			10/21/21 03:33	1

Client Sample ID: C-1140

Lab Sample ID: 890-1412-52

Date Collected: 10/13/21 13:00

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 01:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 01:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 01:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/25/21 10:28	10/26/21 01:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 01:50	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/25/21 10:28	10/26/21 01:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/25/21 10:28	10/26/21 01:50	1
1,4-Difluorobenzene (Surr)	101		70 - 130			10/25/21 10:28	10/26/21 01:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 17:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 17:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 17:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			10/20/21 11:12	10/20/21 17:42	1
o-Terphenyl	122		70 - 130			10/20/21 11:12	10/20/21 17:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	646		4.97	mg/Kg			10/21/21 03:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1141

Lab Sample ID: 890-1412-53

Date Collected: 10/13/21 13:01

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 10:28	10/26/21 04:14	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 10:28	10/26/21 04:14	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 10:28	10/26/21 04:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 10:28	10/26/21 04:14	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 10:28	10/26/21 04:14	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 10:28	10/26/21 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/25/21 10:28	10/26/21 04:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/25/21 10:28	10/26/21 04:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 17:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 18:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	10/20/21 11:12	10/20/21 18:03	1
o-Terphenyl	122		70 - 130	10/20/21 11:12	10/20/21 18:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1210		4.99	mg/Kg			10/21/21 04:02	1

Client Sample ID: C-1142

Lab Sample ID: 890-1412-54

Date Collected: 10/13/21 13:02

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 02:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 02:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 02:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 10:28	10/26/21 02:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 02:11	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 10:28	10/26/21 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/25/21 10:28	10/26/21 02:11	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/25/21 10:28	10/26/21 02:11	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1142

Lab Sample ID: 890-1412-54

Date Collected: 10/13/21 13:02

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/25/21 18:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 18:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 18:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/20/21 11:12	10/20/21 18:25	1
o-Terphenyl	119		70 - 130			10/20/21 11:12	10/20/21 18:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	672		4.96	mg/Kg			10/21/21 04:23	1

Client Sample ID: C-1143

Lab Sample ID: 890-1412-55

Date Collected: 10/13/21 13:03

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 02:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 02:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 02:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 10:28	10/26/21 02:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 02:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 10:28	10/26/21 02:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/25/21 10:28	10/26/21 02:31	1
1,4-Difluorobenzene (Surr)	101		70 - 130			10/25/21 10:28	10/26/21 02:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/25/21 18:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 18:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 18:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1143

Lab Sample ID: 890-1412-55

Date Collected: 10/13/21 13:03

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			10/20/21 11:12	10/20/21 18:46	1
o-Terphenyl	135	S1+	70 - 130			10/20/21 11:12	10/20/21 18:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	915		5.04	mg/Kg			10/21/21 04:31	1

Client Sample ID: C-1144

Lab Sample ID: 890-1412-56

Date Collected: 10/13/21 13:04

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/25/21 10:28	10/26/21 02:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/25/21 10:28	10/26/21 02:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/25/21 10:28	10/26/21 02:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/25/21 10:28	10/26/21 02:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/25/21 10:28	10/26/21 02:52	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/25/21 10:28	10/26/21 02:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			10/25/21 10:28	10/26/21 02:52	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/25/21 10:28	10/26/21 02:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/25/21 18:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 19:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 19:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/20/21 11:12	10/20/21 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/20/21 11:12	10/20/21 19:07	1
o-Terphenyl	120		70 - 130			10/20/21 11:12	10/20/21 19:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	787		4.97	mg/Kg			10/21/21 04:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1145

Lab Sample ID: 890-1412-57

Date Collected: 10/13/21 13:05

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 03:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 03:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 03:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 10:28	10/26/21 03:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 03:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 10:28	10/26/21 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	10/25/21 10:28	10/26/21 03:13	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/25/21 10:28	10/26/21 03:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 18:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 19:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 19:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	10/20/21 11:12	10/20/21 19:28	1
o-Terphenyl	117		70 - 130	10/20/21 11:12	10/20/21 19:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	445		5.04	mg/Kg			10/21/21 04:45	1

Client Sample ID: C-1146

Lab Sample ID: 890-1412-58

Date Collected: 10/13/21 13:06

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 10:28	10/26/21 03:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 10:28	10/26/21 03:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 10:28	10/26/21 03:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 10:28	10/26/21 03:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 10:28	10/26/21 03:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 10:28	10/26/21 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	10/25/21 10:28	10/26/21 03:33	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/25/21 10:28	10/26/21 03:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1146

Lab Sample ID: 890-1412-58

Date Collected: 10/13/21 13:06

Matrix: Solid

Date Received: 10/13/21 15:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 18:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/20/21 10:56	10/20/21 19:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/20/21 10:56	10/20/21 19:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/20/21 10:56	10/20/21 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/20/21 10:56	10/20/21 19:07	1
o-Terphenyl	121		70 - 130			10/20/21 10:56	10/20/21 19:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.8		5.03	mg/Kg			10/21/21 04:52	1

Client Sample ID: C-1147

Lab Sample ID: 890-1412-59

Date Collected: 10/13/21 13:07

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/25/21 10:28	10/26/21 03:54	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/25/21 10:28	10/26/21 03:54	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/25/21 10:28	10/26/21 03:54	1
m-Xylene & p-Xylene	0.00426		0.00404	mg/Kg		10/25/21 10:28	10/26/21 03:54	1
o-Xylene	0.00316		0.00202	mg/Kg		10/25/21 10:28	10/26/21 03:54	1
Xylenes, Total	0.00742		0.00404	mg/Kg		10/25/21 10:28	10/26/21 03:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			10/25/21 10:28	10/26/21 03:54	1
1,4-Difluorobenzene (Surr)	90		70 - 130			10/25/21 10:28	10/26/21 03:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00742		0.00404	mg/Kg			10/25/21 18:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/20/21 10:56	10/20/21 19:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/20/21 10:56	10/20/21 19:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1147

Lab Sample ID: 890-1412-59

Date Collected: 10/13/21 13:07

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/20/21 10:56	10/20/21 19:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/20/21 10:56	10/20/21 19:28	1
o-Terphenyl	123		70 - 130			10/20/21 10:56	10/20/21 19:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		4.97	mg/Kg			10/21/21 04:59	1

Client Sample ID: C-1148

Lab Sample ID: 890-1412-60

Date Collected: 10/13/21 13:08

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 04:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 04:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 04:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 10:28	10/26/21 04:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 04:35	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 10:28	10/26/21 04:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/25/21 10:28	10/26/21 04:35	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/25/21 10:28	10/26/21 04:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/25/21 18:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/20/21 10:56	10/20/21 19:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/20/21 10:56	10/20/21 19:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/20/21 10:56	10/20/21 19:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			10/20/21 10:56	10/20/21 19:50	1
o-Terphenyl	120		70 - 130			10/20/21 10:56	10/20/21 19:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		4.99	mg/Kg			10/21/21 05:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1149

Lab Sample ID: 890-1412-61

Date Collected: 10/13/21 13:09

Matrix: Solid

Date Received: 10/13/21 15:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/21 14:57	10/21/21 04:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/21 14:57	10/21/21 04:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/21 14:57	10/21/21 04:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/19/21 14:57	10/21/21 04:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/21 14:57	10/21/21 04:56	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/19/21 14:57	10/21/21 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/19/21 14:57	10/21/21 04:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/19/21 14:57	10/21/21 04:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/25/21 18:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/22/21 09:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/20/21 10:56	10/20/21 20:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/20/21 10:56	10/20/21 20:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/20/21 10:56	10/20/21 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	10/20/21 10:56	10/20/21 20:11	1
o-Terphenyl	125		70 - 130	10/20/21 10:56	10/20/21 20:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	415		4.99	mg/Kg			10/19/21 11:31	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1412-1	C-1089	101	110
890-1412-1 MS	C-1089	108	114
890-1412-1 MSD	C-1089	106	105
890-1412-2	C-1090	94	91
890-1412-3	C-1091	75	76
890-1412-4	C-1092	109	116
890-1412-5	C-1093	96	103
890-1412-6	C-1094	100	104
890-1412-7	C-1095	97	104
890-1412-8	C-1096	102	107
890-1412-9	C-1097	77	87
890-1412-10	C-1098	92	97
890-1412-11	C-1099	108	110
890-1412-12	C-1100	104	90
890-1412-13	C-1101	94	102
890-1412-14	C-1102	85	103
890-1412-15	C-1103	103	103
890-1412-16	C-1104	105	109
890-1412-17	C-1105	90	121
890-1412-18	C-1106	104	97
890-1412-19	C-1107	101	91
890-1412-20	C-1108	100	104
890-1412-21	C-1109	124	66 S1-
890-1412-21 MS	C-1109	108	67 S1-
890-1412-21 MSD	C-1109	190 S1+	83
890-1412-22	C-1110	137 S1+	72
890-1412-23	C-1111	136 S1+	71
890-1412-24	C-1112	131 S1+	72
890-1412-25	C-1113	225 S1+	108
890-1412-26	C-1114	134 S1+	80
890-1412-27	C-1115	105	74
890-1412-28	C-1116	133 S1+	74
890-1412-29	C-1117	128	80
890-1412-30	C-1118	131 S1+	82
890-1412-31	C-1119	137 S1+	79
890-1412-32	C-1120	120	73
890-1412-33	C-1121	127	87
890-1412-34	C-1122	115	89
890-1412-35	C-1123	123	96
890-1412-36	C-1124	93	83
890-1412-37	C-1125	91	84
890-1412-38	C-1126	94	89
890-1412-39	C-1127	82	90
890-1412-40	C-1128	106	105
890-1412-41	C-1129	129	86
890-1412-41 MS	C-1129	134 S1+	102
890-1412-41 MSD	C-1129	118	104
890-1412-42	C-1130	141 S1+	90
890-1412-43	C-1131	116	68 S1-

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1412-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1412-44	C-1132	127	76
890-1412-45	C-1133	116	77
890-1412-46	C-1134	112	100
890-1412-47	C-1135	143 S1+	87
890-1412-48	C-1136	119	75
890-1412-49	C-1137	130	70
890-1412-50	C-1138	120	73
890-1412-51	C-1139	92	101
890-1412-51 MS	C-1139	94	92
890-1412-51 MSD	C-1139	96	98
890-1412-52	C-1140	95	101
890-1412-53	C-1141	97	100
890-1412-54	C-1142	95	104
890-1412-55	C-1143	92	101
890-1412-56	C-1144	103	105
890-1412-57	C-1145	104	100
890-1412-58	C-1146	106	99
890-1412-59	C-1147	93	90
890-1412-60	C-1148	95	102
890-1412-61	C-1149	97	100
LCS 880-10378/1-A	Lab Control Sample	92	100
LCS 880-9756/1-A	Lab Control Sample	93	101
LCS 880-9758/1-A	Lab Control Sample	115	71
LCS 880-9908/1-A	Lab Control Sample	94	106
LCS 880-9909/1-A	Lab Control Sample	113	101
LCSD 880-10378/2-A	Lab Control Sample Dup	95	99
LCSD 880-9756/2-A	Lab Control Sample Dup	92	107
LCSD 880-9758/2-A	Lab Control Sample Dup	118	75
LCSD 880-9908/2-A	Lab Control Sample Dup	93	107
LCSD 880-9909/2-A	Lab Control Sample Dup	113	99
MB 880-10377/5-A	Method Blank	110	101
MB 880-10378/5-A	Method Blank	108	98
MB 880-9753/5-A	Method Blank	106	94
MB 880-9756/5-A	Method Blank	100	109
MB 880-9758/5-A	Method Blank	84	67 S1-
MB 880-9908/5-A	Method Blank	98	102
MB 880-9909/5-A	Method Blank	103	97
MB 880-9936/8	Method Blank	60 S1-	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1412-1	C-1089	102	120
890-1412-1 MS	C-1089	102	104

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1412-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-1412-1 MSD	C-1089	99	102
890-1412-2	C-1090	105	126
890-1412-3	C-1091	104	124
890-1412-4	C-1092	105	126
890-1412-5	C-1093	108	130
890-1412-6	C-1094	106	125
890-1412-7	C-1095	102	125
890-1412-8	C-1096	102	121
890-1412-9	C-1097	105	127
890-1412-10	C-1098	106	128
890-1412-11	C-1099	106	127
890-1412-12	C-1100	109	128
890-1412-13	C-1101	104	124
890-1412-14	C-1102	106	127
890-1412-15	C-1103	105	125
890-1412-16	C-1104	110	131 S1+
890-1412-17	C-1105	127	152 S1+
890-1412-18	C-1106	108	128
890-1412-19	C-1107	106	125
890-1412-20	C-1108	106	125
890-1412-21	C-1109	121	133 S1+
890-1412-21 MS	C-1109	127	121
890-1412-21 MSD	C-1109	128	121
890-1412-22	C-1110	126	143 S1+
890-1412-23	C-1111	125	139 S1+
890-1412-24	C-1112	122	134 S1+
890-1412-25	C-1113	117	126
890-1412-26	C-1114	117	130
890-1412-27	C-1115	115	132 S1+
890-1412-28	C-1116	140 S1+	151 S1+
890-1412-29	C-1117	110	117
890-1412-30	C-1118	156 S1+	165 S1+
890-1412-31	C-1119	114	119
890-1412-32	C-1120	110	120
890-1412-33	C-1121	128	137 S1+
890-1412-34	C-1122	112	118
890-1412-35	C-1123	116	128
890-1412-36	C-1124	116	125
890-1412-37	C-1125	115	122
890-1412-38	C-1126	112	121
890-1412-39	C-1127	114	117
890-1412-40	C-1128	123	133 S1+
890-1412-41	C-1129	110	117
890-1412-41 MS	C-1129	119	114
890-1412-41 MSD	C-1129	122	117
890-1412-42	C-1130	118	123
890-1412-43	C-1131	106	110
890-1412-44	C-1132	110	115
890-1412-45	C-1133	114	122
890-1412-46	C-1134	106	112

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1412-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1412-47	C-1135	111	118
890-1412-48	C-1136	117	126
890-1412-49	C-1137	115	121
890-1412-50	C-1138	113	122
890-1412-51	C-1139	118	125
890-1412-52	C-1140	115	122
890-1412-53	C-1141	114	122
890-1412-54	C-1142	111	119
890-1412-55	C-1143	126	135 S1+
890-1412-56	C-1144	112	120
890-1412-57	C-1145	109	117
890-1412-58	C-1146	101	121
890-1412-59	C-1147	101	123
890-1412-60	C-1148	100	120
890-1412-61	C-1149	103	125
LCS 880-10060/2-A	Lab Control Sample	92	99
LCS 880-10090/2-A	Lab Control Sample	105	101
LCS 880-9955/2-A	Lab Control Sample	105	119
LCS 880-9959/2-A	Lab Control Sample	102	100
LCSD 880-10060/3-A	Lab Control Sample Dup	89	97
LCSD 880-10090/3-A	Lab Control Sample Dup	107	101
LCSD 880-9955/3-A	Lab Control Sample Dup	102	113
LCSD 880-9959/3-A	Lab Control Sample Dup	104	101
MB 880-10060/1-A	Method Blank	109	132 S1+
MB 880-10090/1-A	Method Blank	121	132 S1+
MB 880-9955/1-A	Method Blank	106	130
MB 880-9959/1-A	Method Blank	116	126

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10377/5-A

Matrix: Solid

Analysis Batch: 10380

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10377

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:24	10/25/21 14:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:24	10/25/21 14:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:24	10/25/21 14:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 10:24	10/25/21 14:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:24	10/25/21 14:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 10:24	10/25/21 14:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/25/21 10:24	10/25/21 14:09	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/25/21 10:24	10/25/21 14:09	1

Lab Sample ID: MB 880-10378/5-A

Matrix: Solid

Analysis Batch: 10380

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10378

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 01:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 01:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 01:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 10:28	10/26/21 01:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 10:28	10/26/21 01:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 10:28	10/26/21 01:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/25/21 10:28	10/26/21 01:08	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/25/21 10:28	10/26/21 01:08	1

Lab Sample ID: LCS 880-10378/1-A

Matrix: Solid

Analysis Batch: 10380

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09678		mg/Kg		97	70 - 130
Toluene	0.100	0.08126		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08189		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.200	0.1569		mg/Kg		78	70 - 130
o-Xylene	0.100	0.08095		mg/Kg		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-10378/2-A

Matrix: Solid

Analysis Batch: 10380

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10378

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09525		mg/Kg		95	70 - 130	2	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-10378/2-A

Matrix: Solid

Analysis Batch: 10380

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10378

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08167		mg/Kg		82	70 - 130	0	35
Ethylbenzene	0.100	0.08262		mg/Kg		83	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1582		mg/Kg		79	70 - 130	1	35
o-Xylene	0.100	0.08186		mg/Kg		82	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-1412-51 MS

Matrix: Solid

Analysis Batch: 10380

Client Sample ID: C-1139

Prep Type: Total/NA

Prep Batch: 10378

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.101	0.06338	F1	mg/Kg		63	70 - 130
Toluene	<0.00199	U F1	0.101	0.05675	F1	mg/Kg		56	70 - 130
Ethylbenzene	<0.00199	U F1	0.101	0.05384	F1	mg/Kg		53	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1030	F1	mg/Kg		51	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.05338	F1	mg/Kg		53	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-1412-51 MSD

Matrix: Solid

Analysis Batch: 10380

Client Sample ID: C-1139

Prep Type: Total/NA

Prep Batch: 10378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0996	0.06228	F1	mg/Kg		63	70 - 130	2	35
Toluene	<0.00199	U F1	0.0996	0.05356	F1	mg/Kg		54	70 - 130	6	35
Ethylbenzene	<0.00199	U F1	0.0996	0.04869	F1	mg/Kg		49	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.09164	F1	mg/Kg		46	70 - 130	12	35
o-Xylene	<0.00199	U F1	0.0996	0.04834	F1	mg/Kg		49	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-9753/5-A

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9753

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:13	10/20/21 16:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:13	10/20/21 16:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:13	10/20/21 16:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/18/21 14:13	10/20/21 16:22	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-9753/5-A

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9753

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:13	10/20/21 16:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/18/21 14:13	10/20/21 16:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			10/18/21 14:13	10/20/21 16:22	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/18/21 14:13	10/20/21 16:22	1

Lab Sample ID: MB 880-9756/5-A

Matrix: Solid

Analysis Batch: 9938

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9756

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 14:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 14:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 14:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/18/21 14:16	10/20/21 14:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:16	10/20/21 14:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/18/21 14:16	10/20/21 14:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			10/18/21 14:16	10/20/21 14:30	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/18/21 14:16	10/20/21 14:30	1

Lab Sample ID: LCS 880-9756/1-A

Matrix: Solid

Analysis Batch: 9938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1053		mg/Kg		105	70 - 130
Toluene	0.100	0.1143		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1207		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	0.200	0.2369		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1239		mg/Kg		124	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	93		70 - 130				
1,4-Difluorobenzene (Surr)	101		70 - 130				

Lab Sample ID: LCSD 880-9756/2-A

Matrix: Solid

Analysis Batch: 9938

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9756

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1057		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.1153		mg/Kg		115	70 - 130	1	35
Ethylbenzene	0.100	0.1211		mg/Kg		121	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2393		mg/Kg		120	70 - 130	1	35
o-Xylene	0.100	0.1258		mg/Kg		126	70 - 130	2	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-1412-1 MS

Matrix: Solid

Analysis Batch: 9938

Client Sample ID: C-1089

Prep Type: Total/NA

Prep Batch: 9756

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.0990	0.09857		mg/Kg		100	70 - 130
Toluene	<0.00201	U	0.0990	0.1091		mg/Kg		110	70 - 130
Ethylbenzene	<0.00201	U	0.0990	0.1103		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2133		mg/Kg		107	70 - 130
o-Xylene	<0.00201	U	0.0990	0.1197		mg/Kg		120	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 890-1412-1 MSD

Matrix: Solid

Analysis Batch: 9938

Client Sample ID: C-1089

Prep Type: Total/NA

Prep Batch: 9756

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00201	U	0.0996	0.09929		mg/Kg		100	70 - 130	1	35
Toluene	<0.00201	U	0.0996	0.1081		mg/Kg		108	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0996	0.1140		mg/Kg		114	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2248		mg/Kg		112	70 - 130	5	35
o-Xylene	<0.00201	U	0.0996	0.1166		mg/Kg		117	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-9758/5-A

Matrix: Solid

Analysis Batch: 9936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9758

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 03:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 03:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 03:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/18/21 14:19	10/21/21 03:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:19	10/21/21 03:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/18/21 14:19	10/21/21 03:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	10/18/21 14:19	10/21/21 03:36	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	10/18/21 14:19	10/21/21 03:36	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-9758/1-A

Matrix: Solid

Analysis Batch: 9936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07036		mg/Kg		70	70 - 130
Toluene	0.100	0.08409		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08178		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.200	0.1628		mg/Kg		81	70 - 130
o-Xylene	0.100	0.08432		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	71		70 - 130

Lab Sample ID: LCSD 880-9758/2-A

Matrix: Solid

Analysis Batch: 9936

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9758

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07336		mg/Kg		73	70 - 130	4	35
Toluene	0.100	0.08962		mg/Kg		90	70 - 130	6	35
Ethylbenzene	0.100	0.08797		mg/Kg		88	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1738		mg/Kg		87	70 - 130	6	35
o-Xylene	0.100	0.08978		mg/Kg		90	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	75		70 - 130

Lab Sample ID: 890-1412-21 MS

Matrix: Solid

Analysis Batch: 9936

Client Sample ID: C-1109

Prep Type: Total/NA

Prep Batch: 9758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0996	0.06545	F1	mg/Kg		66	70 - 130
Toluene	<0.00199	U	0.0996	0.08017		mg/Kg		80	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.07698		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1523		mg/Kg		76	70 - 130
o-Xylene	<0.00199	U	0.0996	0.07613		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130

Lab Sample ID: 890-1412-21 MSD

Matrix: Solid

Analysis Batch: 9936

Client Sample ID: C-1109

Prep Type: Total/NA

Prep Batch: 9758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0996	0.06782	F1	mg/Kg		68	70 - 130	4	35
Toluene	<0.00199	U	0.0996	0.07065		mg/Kg		71	70 - 130	13	35
Ethylbenzene	<0.00199	U F1	0.0996	0.06652	F1	mg/Kg		67	70 - 130	15	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1412-21 MSD

Matrix: Solid

Analysis Batch: 9936

Client Sample ID: C-1109

Prep Type: Total/NA

Prep Batch: 9758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1463		mg/Kg		73	70 - 130	4	35
o-Xylene	<0.00199	U	0.0996	0.07933		mg/Kg		80	70 - 130	4	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	190	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	83		70 - 130								

Lab Sample ID: MB 880-9908/5-A

Matrix: Solid

Analysis Batch: 9938

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9908

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/21 14:57	10/21/21 02:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/21 14:57	10/21/21 02:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/21 14:57	10/21/21 02:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/19/21 14:57	10/21/21 02:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/21 14:57	10/21/21 02:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/19/21 14:57	10/21/21 02:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/19/21 14:57	10/21/21 02:04	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/19/21 14:57	10/21/21 02:04	1

Lab Sample ID: LCS 880-9908/1-A

Matrix: Solid

Analysis Batch: 9938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Benzene	0.100	0.1031		mg/Kg		103	70 - 130	
Toluene	0.100	0.1075		mg/Kg		108	70 - 130	
Ethylbenzene	0.100	0.1152		mg/Kg		115	70 - 130	
m-Xylene & p-Xylene	0.200	0.2275		mg/Kg		114	70 - 130	
o-Xylene	0.100	0.1217		mg/Kg		122	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	94		70 - 130					
1,4-Difluorobenzene (Surr)	106		70 - 130					

Lab Sample ID: LCSD 880-9908/2-A

Matrix: Solid

Analysis Batch: 9938

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9908

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1031		mg/Kg		103	70 - 130	0	35
Toluene	0.100	0.1074		mg/Kg		107	70 - 130	0	35
Ethylbenzene	0.100	0.1163		mg/Kg		116	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2257		mg/Kg		113	70 - 130	1	35
o-Xylene	0.100	0.1189		mg/Kg		119	70 - 130	2	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-9909/5-A

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9909

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 03:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 03:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 03:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/19/21 15:01	10/21/21 03:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/21 15:01	10/21/21 03:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/19/21 15:01	10/21/21 03:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/19/21 15:01	10/21/21 03:13	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/19/21 15:01	10/21/21 03:13	1

Lab Sample ID: LCS 880-9909/1-A

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08928		mg/Kg		89	70 - 130
Toluene	0.100	0.08823		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09066		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1904		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09534		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-9909/2-A

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9909

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09200		mg/Kg		92	70 - 130	3	35
Toluene	0.100	0.09137		mg/Kg		91	70 - 130	3	35
Ethylbenzene	0.100	0.09784		mg/Kg		98	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2032		mg/Kg		102	70 - 130	6	35
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1412-41 MS

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: C-1129

Prep Type: Total/NA

Prep Batch: 9909

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0992	0.05498	F1	mg/Kg		54	70 - 130
Toluene	<0.00199	U F1	0.0992	0.06551	F1	mg/Kg		66	70 - 130
Ethylbenzene	<0.00199	U	0.0992	0.07496		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1574		mg/Kg		79	70 - 130
o-Xylene	<0.00199	U	0.0992	0.07490		mg/Kg		75	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-1412-41 MSD

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: C-1129

Prep Type: Total/NA

Prep Batch: 9909

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.07768		mg/Kg		76	70 - 130	34	35
Toluene	<0.00199	U F1	0.100	0.07343		mg/Kg		73	70 - 130	11	35
Ethylbenzene	<0.00199	U	0.100	0.07251		mg/Kg		73	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1539		mg/Kg		76	70 - 130	2	35
o-Xylene	<0.00199	U	0.100	0.07759		mg/Kg		77	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-9936/8

Matrix: Solid

Analysis Batch: 9936

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			10/20/21 14:01	1
Toluene	<0.00200	U	0.00200	mg/Kg			10/20/21 14:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			10/20/21 14:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			10/20/21 14:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			10/20/21 14:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			10/20/21 14:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130		10/20/21 14:01	1
1,4-Difluorobenzene (Surr)	92		70 - 130		10/20/21 14:01	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-10060/1-A

Matrix: Solid

Analysis Batch: 10055

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10060

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 15:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 15:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 09:06	10/21/21 15:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/21/21 09:06	10/21/21 15:30	1
o-Terphenyl	132	S1+	70 - 130			10/21/21 09:06	10/21/21 15:30	1

Lab Sample ID: LCS 880-10060/2-A

Matrix: Solid

Analysis Batch: 10055

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	884.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	992.3		mg/Kg		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	92		70 - 130				
o-Terphenyl	99		70 - 130				

Lab Sample ID: LCSD 880-10060/3-A

Matrix: Solid

Analysis Batch: 10055

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10060

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	885.1		mg/Kg		89	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1004		mg/Kg		100	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	89		70 - 130						
o-Terphenyl	97		70 - 130						

Lab Sample ID: 890-1412-1 MS

Matrix: Solid

Analysis Batch: 10055

Client Sample ID: C-1089

Prep Type: Total/NA

Prep Batch: 10060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	996	842.6		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	996	943.2		mg/Kg		95	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1412-1 MS

Matrix: Solid

Analysis Batch: 10055

Client Sample ID: C-1089

Prep Type: Total/NA

Prep Batch: 10060

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-1412-1 MSD

Matrix: Solid

Analysis Batch: 10055

Client Sample ID: C-1089

Prep Type: Total/NA

Prep Batch: 10060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	994	876.3		mg/Kg		88	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.8	U	994	921.6		mg/Kg		93	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: MB 880-10090/1-A

Matrix: Solid

Analysis Batch: 10057

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10090

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 15:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 15:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 11:40	10/21/21 15:30	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	121		70 - 130	10/21/21 11:40	10/21/21 15:30	1		
o-Terphenyl	132	S1+	70 - 130	10/21/21 11:40	10/21/21 15:30	1		

Lab Sample ID: LCS 880-10090/2-A

Matrix: Solid

Analysis Batch: 10057

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	944.2		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1140		mg/Kg		114	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	101		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-10090/3-A

Matrix: Solid

Analysis Batch: 10057

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10090

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1004		mg/Kg		100	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1182		mg/Kg		118	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
o-Terphenyl	101		70 - 130						

Lab Sample ID: 890-1412-21 MS

Matrix: Solid

Analysis Batch: 10057

Client Sample ID: C-1109

Prep Type: Total/NA

Prep Batch: 10090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	1030		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1151		mg/Kg		116	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	127		70 - 130								
o-Terphenyl	121		70 - 130								

Lab Sample ID: 890-1412-21 MSD

Matrix: Solid

Analysis Batch: 10057

Client Sample ID: C-1109

Prep Type: Total/NA

Prep Batch: 10090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1063		mg/Kg		106	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1165		mg/Kg		117	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	128		70 - 130								
o-Terphenyl	121		70 - 130								

Lab Sample ID: MB 880-9955/1-A

Matrix: Solid

Analysis Batch: 9931

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9955

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/20/21 10:56	10/20/21 11:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/20/21 10:56	10/20/21 11:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/20/21 10:56	10/20/21 11:41	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-9955/1-A

Matrix: Solid

Analysis Batch: 9931

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9955

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	10/20/21 10:56	10/20/21 11:41	1
o-Terphenyl	130		70 - 130	10/20/21 10:56	10/20/21 11:41	1

Lab Sample ID: LCS 880-9955/2-A

Matrix: Solid

Analysis Batch: 9931

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1033		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1164		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-9955/3-A

Matrix: Solid

Analysis Batch: 9931

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9955

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1045		mg/Kg		104	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1155		mg/Kg		116	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: MB 880-9959/1-A

Matrix: Solid

Analysis Batch: 9933

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9959

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 11:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 11:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	10/20/21 11:12	10/20/21 11:41	1
o-Terphenyl	126		70 - 130	10/20/21 11:12	10/20/21 11:41	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-9959/2-A

Matrix: Solid

Analysis Batch: 9933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9959

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	948.6		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1131		mg/Kg		113	70 - 130		

Lab Sample ID: LCSD 880-9959/3-A

Matrix: Solid

Analysis Batch: 9933

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9959

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Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	940.1		mg/Kg		94	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1126		mg/Kg		113	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: 890-1412-41 MS

Matrix: Solid

Analysis Batch: 9933

Client Sample ID: C-1129

Prep Type: Total/NA

Prep Batch: 9959

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	996	1023		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	996	1078		mg/Kg		106	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	119		70 - 130								
o-Terphenyl	114		70 - 130								

Lab Sample ID: 890-1412-41 MSD

Matrix: Solid

Analysis Batch: 9933

Client Sample ID: C-1129

Prep Type: Total/NA

Prep Batch: 9959

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	994	1022		mg/Kg		103	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	994	1132		mg/Kg		112	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	122		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1412-41 MSD
Matrix: Solid
Analysis Batch: 9933

Client Sample ID: C-1129
Prep Type: Total/NA
Prep Batch: 9959

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	117		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9716/1-A
Matrix: Solid
Analysis Batch: 9814

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/19/21 02:10	1

Lab Sample ID: LCS 880-9716/2-A
Matrix: Solid
Analysis Batch: 9814

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.4		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-9716/3-A
Matrix: Solid
Analysis Batch: 9814

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	245.7		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-1412-31 MS
Matrix: Solid
Analysis Batch: 9814

Client Sample ID: C-1119
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2730		1250	4034		mg/Kg		104	90 - 110

Lab Sample ID: 890-1412-31 MSD
Matrix: Solid
Analysis Batch: 9814

Client Sample ID: C-1119
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2730		1250	4042		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-9720/1-A
Matrix: Solid
Analysis Batch: 9829

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/19/21 08:43	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-9720/2-A

Matrix: Solid

Analysis Batch: 9829

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	238.4		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-9720/3-A

Matrix: Solid

Analysis Batch: 9829

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	239.1		mg/Kg		96	90 - 110	0	20

Lab Sample ID: MB 880-9721/1-A

Matrix: Solid

Analysis Batch: 9830

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/19/21 12:09	1

Lab Sample ID: LCS 880-9721/2-A

Matrix: Solid

Analysis Batch: 9830

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	243.1		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-9721/3-A

Matrix: Solid

Analysis Batch: 9830

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	244.1		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-9722/1-A

Matrix: Solid

Analysis Batch: 9831

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/19/21 16:28	1

Lab Sample ID: LCS 880-9722/2-A

Matrix: Solid

Analysis Batch: 9831

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	249.5		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-9722/3-A

Matrix: Solid

Analysis Batch: 9831

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.9		mg/Kg		100	90 - 110	0	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1412-5 MS

Matrix: Solid

Analysis Batch: 9831

Client Sample ID: C-1093

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	511		248	754.4		mg/Kg		99	90 - 110

Lab Sample ID: 890-1412-5 MSD

Matrix: Solid

Analysis Batch: 9831

Client Sample ID: C-1093

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	511		248	743.9		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 890-1412-15 MS

Matrix: Solid

Analysis Batch: 9831

Client Sample ID: C-1103

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	214		251	480.5		mg/Kg		107	90 - 110

Lab Sample ID: 890-1412-15 MSD

Matrix: Solid

Analysis Batch: 9831

Client Sample ID: C-1103

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	214		251	477.7		mg/Kg		105	90 - 110	1	20

Lab Sample ID: MB 880-9718/1-A

Matrix: Solid

Analysis Batch: 9837

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/21/21 01:32	1

Lab Sample ID: LCS 880-9718/2-A

Matrix: Solid

Analysis Batch: 9837

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.4		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-9718/3-A

Matrix: Solid

Analysis Batch: 9837

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	232.2		mg/Kg		93	90 - 110	6	20

Lab Sample ID: 890-1412-41 MS

Matrix: Solid

Analysis Batch: 9837

Client Sample ID: C-1129

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6090	F1	2480	8030	F1	mg/Kg		79	90 - 110

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1412-41 MSD

Matrix: Solid

Analysis Batch: 9837

Client Sample ID: C-1129

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6090	F1	2480	8520		mg/Kg		98	90 - 110	6	20

Lab Sample ID: 890-1412-51 MS

Matrix: Solid

Analysis Batch: 9837

Client Sample ID: C-1139

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1160		251	1290	4	mg/Kg		52	90 - 110		

Lab Sample ID: 890-1412-51 MSD

Matrix: Solid

Analysis Batch: 9837

Client Sample ID: C-1139

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1160		251	1354	4	mg/Kg		77	90 - 110	5	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

GC VOA

Prep Batch: 9753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9753/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 9756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-1	C-1089	Total/NA	Solid	5035	
890-1412-2	C-1090	Total/NA	Solid	5035	
890-1412-3	C-1091	Total/NA	Solid	5035	
890-1412-4	C-1092	Total/NA	Solid	5035	
890-1412-5	C-1093	Total/NA	Solid	5035	
890-1412-6	C-1094	Total/NA	Solid	5035	
890-1412-7	C-1095	Total/NA	Solid	5035	
890-1412-8	C-1096	Total/NA	Solid	5035	
890-1412-9	C-1097	Total/NA	Solid	5035	
890-1412-10	C-1098	Total/NA	Solid	5035	
890-1412-11	C-1099	Total/NA	Solid	5035	
890-1412-12	C-1100	Total/NA	Solid	5035	
890-1412-13	C-1101	Total/NA	Solid	5035	
890-1412-14	C-1102	Total/NA	Solid	5035	
890-1412-15	C-1103	Total/NA	Solid	5035	
890-1412-16	C-1104	Total/NA	Solid	5035	
890-1412-17	C-1105	Total/NA	Solid	5035	
890-1412-18	C-1106	Total/NA	Solid	5035	
890-1412-19	C-1107	Total/NA	Solid	5035	
890-1412-20	C-1108	Total/NA	Solid	5035	
MB 880-9756/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9756/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9756/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1412-1 MS	C-1089	Total/NA	Solid	5035	
890-1412-1 MSD	C-1089	Total/NA	Solid	5035	

Prep Batch: 9758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-21	C-1109	Total/NA	Solid	5035	
890-1412-22	C-1110	Total/NA	Solid	5035	
890-1412-23	C-1111	Total/NA	Solid	5035	
890-1412-24	C-1112	Total/NA	Solid	5035	
890-1412-25	C-1113	Total/NA	Solid	5035	
890-1412-26	C-1114	Total/NA	Solid	5035	
890-1412-27	C-1115	Total/NA	Solid	5035	
890-1412-28	C-1116	Total/NA	Solid	5035	
890-1412-29	C-1117	Total/NA	Solid	5035	
890-1412-30	C-1118	Total/NA	Solid	5035	
890-1412-31	C-1119	Total/NA	Solid	5035	
890-1412-32	C-1120	Total/NA	Solid	5035	
890-1412-33	C-1121	Total/NA	Solid	5035	
890-1412-34	C-1122	Total/NA	Solid	5035	
890-1412-35	C-1123	Total/NA	Solid	5035	
890-1412-36	C-1124	Total/NA	Solid	5035	
890-1412-37	C-1125	Total/NA	Solid	5035	
890-1412-38	C-1126	Total/NA	Solid	5035	
890-1412-39	C-1127	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 9758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-40	C-1128	Total/NA	Solid	5035	
MB 880-9758/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9758/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9758/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1412-21 MS	C-1109	Total/NA	Solid	5035	
890-1412-21 MSD	C-1109	Total/NA	Solid	5035	

Prep Batch: 9908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-61	C-1149	Total/NA	Solid	5035	
MB 880-9908/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9908/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9908/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 9909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-41	C-1129	Total/NA	Solid	5035	
890-1412-42	C-1130	Total/NA	Solid	5035	
890-1412-43	C-1131	Total/NA	Solid	5035	
890-1412-44	C-1132	Total/NA	Solid	5035	
890-1412-45	C-1133	Total/NA	Solid	5035	
890-1412-46	C-1134	Total/NA	Solid	5035	
890-1412-47	C-1135	Total/NA	Solid	5035	
890-1412-48	C-1136	Total/NA	Solid	5035	
890-1412-49	C-1137	Total/NA	Solid	5035	
890-1412-50	C-1138	Total/NA	Solid	5035	
MB 880-9909/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9909/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9909/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1412-41 MS	C-1129	Total/NA	Solid	5035	
890-1412-41 MSD	C-1129	Total/NA	Solid	5035	

Analysis Batch: 9936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-21	C-1109	Total/NA	Solid	8021B	9758
890-1412-22	C-1110	Total/NA	Solid	8021B	9758
890-1412-23	C-1111	Total/NA	Solid	8021B	9758
890-1412-24	C-1112	Total/NA	Solid	8021B	9758
890-1412-25	C-1113	Total/NA	Solid	8021B	9758
890-1412-26	C-1114	Total/NA	Solid	8021B	9758
890-1412-27	C-1115	Total/NA	Solid	8021B	9758
890-1412-28	C-1116	Total/NA	Solid	8021B	9758
890-1412-29	C-1117	Total/NA	Solid	8021B	9758
890-1412-30	C-1118	Total/NA	Solid	8021B	9758
890-1412-31	C-1119	Total/NA	Solid	8021B	9758
890-1412-32	C-1120	Total/NA	Solid	8021B	9758
890-1412-33	C-1121	Total/NA	Solid	8021B	9758
890-1412-34	C-1122	Total/NA	Solid	8021B	9758
890-1412-35	C-1123	Total/NA	Solid	8021B	9758
890-1412-36	C-1124	Total/NA	Solid	8021B	9758
890-1412-37	C-1125	Total/NA	Solid	8021B	9758

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-38	C-1126	Total/NA	Solid	8021B	9758
890-1412-39	C-1127	Total/NA	Solid	8021B	9758
890-1412-40	C-1128	Total/NA	Solid	8021B	9758
MB 880-9758/5-A	Method Blank	Total/NA	Solid	8021B	9758
MB 880-9936/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-9758/1-A	Lab Control Sample	Total/NA	Solid	8021B	9758
LCSD 880-9758/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9758
890-1412-21 MS	C-1109	Total/NA	Solid	8021B	9758
890-1412-21 MSD	C-1109	Total/NA	Solid	8021B	9758

Analysis Batch: 9938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-1	C-1089	Total/NA	Solid	8021B	9756
890-1412-2	C-1090	Total/NA	Solid	8021B	9756
890-1412-3	C-1091	Total/NA	Solid	8021B	9756
890-1412-4	C-1092	Total/NA	Solid	8021B	9756
890-1412-5	C-1093	Total/NA	Solid	8021B	9756
890-1412-6	C-1094	Total/NA	Solid	8021B	9756
890-1412-7	C-1095	Total/NA	Solid	8021B	9756
890-1412-8	C-1096	Total/NA	Solid	8021B	9756
890-1412-9	C-1097	Total/NA	Solid	8021B	9756
890-1412-10	C-1098	Total/NA	Solid	8021B	9756
890-1412-11	C-1099	Total/NA	Solid	8021B	9756
890-1412-12	C-1100	Total/NA	Solid	8021B	9756
890-1412-13	C-1101	Total/NA	Solid	8021B	9756
890-1412-14	C-1102	Total/NA	Solid	8021B	9756
890-1412-15	C-1103	Total/NA	Solid	8021B	9756
890-1412-16	C-1104	Total/NA	Solid	8021B	9756
890-1412-17	C-1105	Total/NA	Solid	8021B	9756
890-1412-18	C-1106	Total/NA	Solid	8021B	9756
890-1412-19	C-1107	Total/NA	Solid	8021B	9756
890-1412-20	C-1108	Total/NA	Solid	8021B	9756
890-1412-61	C-1149	Total/NA	Solid	8021B	9908
MB 880-9756/5-A	Method Blank	Total/NA	Solid	8021B	9756
MB 880-9908/5-A	Method Blank	Total/NA	Solid	8021B	9908
LCS 880-9756/1-A	Lab Control Sample	Total/NA	Solid	8021B	9756
LCS 880-9908/1-A	Lab Control Sample	Total/NA	Solid	8021B	9908
LCSD 880-9756/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9756
LCSD 880-9908/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9908
890-1412-1 MS	C-1089	Total/NA	Solid	8021B	9756
890-1412-1 MSD	C-1089	Total/NA	Solid	8021B	9756

Analysis Batch: 9941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-41	C-1129	Total/NA	Solid	8021B	9909
890-1412-42	C-1130	Total/NA	Solid	8021B	9909
890-1412-43	C-1131	Total/NA	Solid	8021B	9909
890-1412-44	C-1132	Total/NA	Solid	8021B	9909
890-1412-45	C-1133	Total/NA	Solid	8021B	9909
890-1412-46	C-1134	Total/NA	Solid	8021B	9909
890-1412-47	C-1135	Total/NA	Solid	8021B	9909

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9941 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-48	C-1136	Total/NA	Solid	8021B	9909
890-1412-49	C-1137	Total/NA	Solid	8021B	9909
890-1412-50	C-1138	Total/NA	Solid	8021B	9909
MB 880-9753/5-A	Method Blank	Total/NA	Solid	8021B	9753
MB 880-9909/5-A	Method Blank	Total/NA	Solid	8021B	9909
LCS 880-9909/1-A	Lab Control Sample	Total/NA	Solid	8021B	9909
LCSD 880-9909/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9909
890-1412-41 MS	C-1129	Total/NA	Solid	8021B	9909
890-1412-41 MSD	C-1129	Total/NA	Solid	8021B	9909

Prep Batch: 10377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10377/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 10378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-51	C-1139	Total/NA	Solid	5035	
890-1412-52	C-1140	Total/NA	Solid	5035	
890-1412-53	C-1141	Total/NA	Solid	5035	
890-1412-54	C-1142	Total/NA	Solid	5035	
890-1412-55	C-1143	Total/NA	Solid	5035	
890-1412-56	C-1144	Total/NA	Solid	5035	
890-1412-57	C-1145	Total/NA	Solid	5035	
890-1412-58	C-1146	Total/NA	Solid	5035	
890-1412-59	C-1147	Total/NA	Solid	5035	
890-1412-60	C-1148	Total/NA	Solid	5035	
MB 880-10378/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10378/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10378/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1412-51 MS	C-1139	Total/NA	Solid	5035	
890-1412-51 MSD	C-1139	Total/NA	Solid	5035	

Analysis Batch: 10380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-51	C-1139	Total/NA	Solid	8021B	10378
890-1412-52	C-1140	Total/NA	Solid	8021B	10378
890-1412-53	C-1141	Total/NA	Solid	8021B	10378
890-1412-54	C-1142	Total/NA	Solid	8021B	10378
890-1412-55	C-1143	Total/NA	Solid	8021B	10378
890-1412-56	C-1144	Total/NA	Solid	8021B	10378
890-1412-57	C-1145	Total/NA	Solid	8021B	10378
890-1412-58	C-1146	Total/NA	Solid	8021B	10378
890-1412-59	C-1147	Total/NA	Solid	8021B	10378
890-1412-60	C-1148	Total/NA	Solid	8021B	10378
MB 880-10377/5-A	Method Blank	Total/NA	Solid	8021B	10377
MB 880-10378/5-A	Method Blank	Total/NA	Solid	8021B	10378
LCS 880-10378/1-A	Lab Control Sample	Total/NA	Solid	8021B	10378
LCSD 880-10378/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10378
890-1412-51 MS	C-1139	Total/NA	Solid	8021B	10378
890-1412-51 MSD	C-1139	Total/NA	Solid	8021B	10378

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

GC VOA

Analysis Batch: 10526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-1	C-1089	Total/NA	Solid	Total BTEX	
890-1412-2	C-1090	Total/NA	Solid	Total BTEX	
890-1412-3	C-1091	Total/NA	Solid	Total BTEX	
890-1412-4	C-1092	Total/NA	Solid	Total BTEX	
890-1412-5	C-1093	Total/NA	Solid	Total BTEX	
890-1412-6	C-1094	Total/NA	Solid	Total BTEX	
890-1412-7	C-1095	Total/NA	Solid	Total BTEX	
890-1412-8	C-1096	Total/NA	Solid	Total BTEX	
890-1412-9	C-1097	Total/NA	Solid	Total BTEX	
890-1412-10	C-1098	Total/NA	Solid	Total BTEX	
890-1412-11	C-1099	Total/NA	Solid	Total BTEX	
890-1412-12	C-1100	Total/NA	Solid	Total BTEX	
890-1412-13	C-1101	Total/NA	Solid	Total BTEX	
890-1412-14	C-1102	Total/NA	Solid	Total BTEX	
890-1412-15	C-1103	Total/NA	Solid	Total BTEX	
890-1412-16	C-1104	Total/NA	Solid	Total BTEX	
890-1412-17	C-1105	Total/NA	Solid	Total BTEX	
890-1412-18	C-1106	Total/NA	Solid	Total BTEX	
890-1412-19	C-1107	Total/NA	Solid	Total BTEX	
890-1412-20	C-1108	Total/NA	Solid	Total BTEX	
890-1412-21	C-1109	Total/NA	Solid	Total BTEX	
890-1412-22	C-1110	Total/NA	Solid	Total BTEX	
890-1412-23	C-1111	Total/NA	Solid	Total BTEX	
890-1412-24	C-1112	Total/NA	Solid	Total BTEX	
890-1412-25	C-1113	Total/NA	Solid	Total BTEX	
890-1412-26	C-1114	Total/NA	Solid	Total BTEX	
890-1412-27	C-1115	Total/NA	Solid	Total BTEX	
890-1412-28	C-1116	Total/NA	Solid	Total BTEX	
890-1412-29	C-1117	Total/NA	Solid	Total BTEX	
890-1412-30	C-1118	Total/NA	Solid	Total BTEX	
890-1412-31	C-1119	Total/NA	Solid	Total BTEX	
890-1412-32	C-1120	Total/NA	Solid	Total BTEX	
890-1412-33	C-1121	Total/NA	Solid	Total BTEX	
890-1412-34	C-1122	Total/NA	Solid	Total BTEX	
890-1412-35	C-1123	Total/NA	Solid	Total BTEX	
890-1412-36	C-1124	Total/NA	Solid	Total BTEX	
890-1412-37	C-1125	Total/NA	Solid	Total BTEX	
890-1412-38	C-1126	Total/NA	Solid	Total BTEX	
890-1412-39	C-1127	Total/NA	Solid	Total BTEX	
890-1412-40	C-1128	Total/NA	Solid	Total BTEX	
890-1412-41	C-1129	Total/NA	Solid	Total BTEX	
890-1412-42	C-1130	Total/NA	Solid	Total BTEX	
890-1412-43	C-1131	Total/NA	Solid	Total BTEX	
890-1412-44	C-1132	Total/NA	Solid	Total BTEX	
890-1412-45	C-1133	Total/NA	Solid	Total BTEX	
890-1412-46	C-1134	Total/NA	Solid	Total BTEX	
890-1412-47	C-1135	Total/NA	Solid	Total BTEX	
890-1412-48	C-1136	Total/NA	Solid	Total BTEX	
890-1412-49	C-1137	Total/NA	Solid	Total BTEX	
890-1412-50	C-1138	Total/NA	Solid	Total BTEX	
890-1412-51	C-1139	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 10526 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-52	C-1140	Total/NA	Solid	Total BTEX	
890-1412-53	C-1141	Total/NA	Solid	Total BTEX	
890-1412-54	C-1142	Total/NA	Solid	Total BTEX	
890-1412-55	C-1143	Total/NA	Solid	Total BTEX	
890-1412-56	C-1144	Total/NA	Solid	Total BTEX	
890-1412-57	C-1145	Total/NA	Solid	Total BTEX	
890-1412-58	C-1146	Total/NA	Solid	Total BTEX	
890-1412-59	C-1147	Total/NA	Solid	Total BTEX	
890-1412-60	C-1148	Total/NA	Solid	Total BTEX	
890-1412-61	C-1149	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 9931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-58	C-1146	Total/NA	Solid	8015B NM	9955
890-1412-59	C-1147	Total/NA	Solid	8015B NM	9955
890-1412-60	C-1148	Total/NA	Solid	8015B NM	9955
890-1412-61	C-1149	Total/NA	Solid	8015B NM	9955
MB 880-9955/1-A	Method Blank	Total/NA	Solid	8015B NM	9955
LCS 880-9955/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9955
LCSD 880-9955/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9955

Analysis Batch: 9933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-41	C-1129	Total/NA	Solid	8015B NM	9959
890-1412-42	C-1130	Total/NA	Solid	8015B NM	9959
890-1412-43	C-1131	Total/NA	Solid	8015B NM	9959
890-1412-44	C-1132	Total/NA	Solid	8015B NM	9959
890-1412-45	C-1133	Total/NA	Solid	8015B NM	9959
890-1412-46	C-1134	Total/NA	Solid	8015B NM	9959
890-1412-47	C-1135	Total/NA	Solid	8015B NM	9959
890-1412-48	C-1136	Total/NA	Solid	8015B NM	9959
890-1412-49	C-1137	Total/NA	Solid	8015B NM	9959
890-1412-50	C-1138	Total/NA	Solid	8015B NM	9959
890-1412-51	C-1139	Total/NA	Solid	8015B NM	9959
890-1412-52	C-1140	Total/NA	Solid	8015B NM	9959
890-1412-53	C-1141	Total/NA	Solid	8015B NM	9959
890-1412-54	C-1142	Total/NA	Solid	8015B NM	9959
890-1412-55	C-1143	Total/NA	Solid	8015B NM	9959
890-1412-56	C-1144	Total/NA	Solid	8015B NM	9959
890-1412-57	C-1145	Total/NA	Solid	8015B NM	9959
MB 880-9959/1-A	Method Blank	Total/NA	Solid	8015B NM	9959
LCS 880-9959/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9959
LCSD 880-9959/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9959
890-1412-41 MS	C-1129	Total/NA	Solid	8015B NM	9959
890-1412-41 MSD	C-1129	Total/NA	Solid	8015B NM	9959

Prep Batch: 9955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-58	C-1146	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 9955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-59	C-1147	Total/NA	Solid	8015NM Prep	
890-1412-60	C-1148	Total/NA	Solid	8015NM Prep	
890-1412-61	C-1149	Total/NA	Solid	8015NM Prep	
MB 880-9955/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9955/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9955/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 9959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-41	C-1129	Total/NA	Solid	8015NM Prep	
890-1412-42	C-1130	Total/NA	Solid	8015NM Prep	
890-1412-43	C-1131	Total/NA	Solid	8015NM Prep	
890-1412-44	C-1132	Total/NA	Solid	8015NM Prep	
890-1412-45	C-1133	Total/NA	Solid	8015NM Prep	
890-1412-46	C-1134	Total/NA	Solid	8015NM Prep	
890-1412-47	C-1135	Total/NA	Solid	8015NM Prep	
890-1412-48	C-1136	Total/NA	Solid	8015NM Prep	
890-1412-49	C-1137	Total/NA	Solid	8015NM Prep	
890-1412-50	C-1138	Total/NA	Solid	8015NM Prep	
890-1412-51	C-1139	Total/NA	Solid	8015NM Prep	
890-1412-52	C-1140	Total/NA	Solid	8015NM Prep	
890-1412-53	C-1141	Total/NA	Solid	8015NM Prep	
890-1412-54	C-1142	Total/NA	Solid	8015NM Prep	
890-1412-55	C-1143	Total/NA	Solid	8015NM Prep	
890-1412-56	C-1144	Total/NA	Solid	8015NM Prep	
890-1412-57	C-1145	Total/NA	Solid	8015NM Prep	
MB 880-9959/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9959/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9959/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1412-41 MS	C-1129	Total/NA	Solid	8015NM Prep	
890-1412-41 MSD	C-1129	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-1	C-1089	Total/NA	Solid	8015B NM	10060
890-1412-2	C-1090	Total/NA	Solid	8015B NM	10060
890-1412-3	C-1091	Total/NA	Solid	8015B NM	10060
890-1412-4	C-1092	Total/NA	Solid	8015B NM	10060
890-1412-5	C-1093	Total/NA	Solid	8015B NM	10060
890-1412-6	C-1094	Total/NA	Solid	8015B NM	10060
890-1412-7	C-1095	Total/NA	Solid	8015B NM	10060
890-1412-8	C-1096	Total/NA	Solid	8015B NM	10060
890-1412-9	C-1097	Total/NA	Solid	8015B NM	10060
890-1412-10	C-1098	Total/NA	Solid	8015B NM	10060
890-1412-11	C-1099	Total/NA	Solid	8015B NM	10060
890-1412-12	C-1100	Total/NA	Solid	8015B NM	10060
890-1412-13	C-1101	Total/NA	Solid	8015B NM	10060
890-1412-14	C-1102	Total/NA	Solid	8015B NM	10060
890-1412-15	C-1103	Total/NA	Solid	8015B NM	10060
890-1412-16	C-1104	Total/NA	Solid	8015B NM	10060
890-1412-17	C-1105	Total/NA	Solid	8015B NM	10060

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 10055 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-18	C-1106	Total/NA	Solid	8015B NM	10060
890-1412-19	C-1107	Total/NA	Solid	8015B NM	10060
890-1412-20	C-1108	Total/NA	Solid	8015B NM	10060
MB 880-10060/1-A	Method Blank	Total/NA	Solid	8015B NM	10060
LCS 880-10060/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10060
LCSD 880-10060/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10060
890-1412-1 MS	C-1089	Total/NA	Solid	8015B NM	10060
890-1412-1 MSD	C-1089	Total/NA	Solid	8015B NM	10060

Analysis Batch: 10057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-21	C-1109	Total/NA	Solid	8015B NM	10090
890-1412-22	C-1110	Total/NA	Solid	8015B NM	10090
890-1412-23	C-1111	Total/NA	Solid	8015B NM	10090
890-1412-24	C-1112	Total/NA	Solid	8015B NM	10090
890-1412-25	C-1113	Total/NA	Solid	8015B NM	10090
890-1412-26	C-1114	Total/NA	Solid	8015B NM	10090
890-1412-27	C-1115	Total/NA	Solid	8015B NM	10090
890-1412-28	C-1116	Total/NA	Solid	8015B NM	10090
890-1412-29	C-1117	Total/NA	Solid	8015B NM	10090
890-1412-30	C-1118	Total/NA	Solid	8015B NM	10090
890-1412-31	C-1119	Total/NA	Solid	8015B NM	10090
890-1412-32	C-1120	Total/NA	Solid	8015B NM	10090
890-1412-33	C-1121	Total/NA	Solid	8015B NM	10090
890-1412-34	C-1122	Total/NA	Solid	8015B NM	10090
890-1412-35	C-1123	Total/NA	Solid	8015B NM	10090
890-1412-36	C-1124	Total/NA	Solid	8015B NM	10090
890-1412-37	C-1125	Total/NA	Solid	8015B NM	10090
890-1412-38	C-1126	Total/NA	Solid	8015B NM	10090
890-1412-39	C-1127	Total/NA	Solid	8015B NM	10090
890-1412-40	C-1128	Total/NA	Solid	8015B NM	10090
MB 880-10090/1-A	Method Blank	Total/NA	Solid	8015B NM	10090
LCS 880-10090/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10090
LCSD 880-10090/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10090
890-1412-21 MS	C-1109	Total/NA	Solid	8015B NM	10090
890-1412-21 MSD	C-1109	Total/NA	Solid	8015B NM	10090

Prep Batch: 10060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-1	C-1089	Total/NA	Solid	8015NM Prep	
890-1412-2	C-1090	Total/NA	Solid	8015NM Prep	
890-1412-3	C-1091	Total/NA	Solid	8015NM Prep	
890-1412-4	C-1092	Total/NA	Solid	8015NM Prep	
890-1412-5	C-1093	Total/NA	Solid	8015NM Prep	
890-1412-6	C-1094	Total/NA	Solid	8015NM Prep	
890-1412-7	C-1095	Total/NA	Solid	8015NM Prep	
890-1412-8	C-1096	Total/NA	Solid	8015NM Prep	
890-1412-9	C-1097	Total/NA	Solid	8015NM Prep	
890-1412-10	C-1098	Total/NA	Solid	8015NM Prep	
890-1412-11	C-1099	Total/NA	Solid	8015NM Prep	
890-1412-12	C-1100	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 10060 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-13	C-1101	Total/NA	Solid	8015NM Prep	
890-1412-14	C-1102	Total/NA	Solid	8015NM Prep	
890-1412-15	C-1103	Total/NA	Solid	8015NM Prep	
890-1412-16	C-1104	Total/NA	Solid	8015NM Prep	
890-1412-17	C-1105	Total/NA	Solid	8015NM Prep	
890-1412-18	C-1106	Total/NA	Solid	8015NM Prep	
890-1412-19	C-1107	Total/NA	Solid	8015NM Prep	
890-1412-20	C-1108	Total/NA	Solid	8015NM Prep	
MB 880-10060/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10060/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10060/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1412-1 MS	C-1089	Total/NA	Solid	8015NM Prep	
890-1412-1 MSD	C-1089	Total/NA	Solid	8015NM Prep	

Prep Batch: 10090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-21	C-1109	Total/NA	Solid	8015NM Prep	
890-1412-22	C-1110	Total/NA	Solid	8015NM Prep	
890-1412-23	C-1111	Total/NA	Solid	8015NM Prep	
890-1412-24	C-1112	Total/NA	Solid	8015NM Prep	
890-1412-25	C-1113	Total/NA	Solid	8015NM Prep	
890-1412-26	C-1114	Total/NA	Solid	8015NM Prep	
890-1412-27	C-1115	Total/NA	Solid	8015NM Prep	
890-1412-28	C-1116	Total/NA	Solid	8015NM Prep	
890-1412-29	C-1117	Total/NA	Solid	8015NM Prep	
890-1412-30	C-1118	Total/NA	Solid	8015NM Prep	
890-1412-31	C-1119	Total/NA	Solid	8015NM Prep	
890-1412-32	C-1120	Total/NA	Solid	8015NM Prep	
890-1412-33	C-1121	Total/NA	Solid	8015NM Prep	
890-1412-34	C-1122	Total/NA	Solid	8015NM Prep	
890-1412-35	C-1123	Total/NA	Solid	8015NM Prep	
890-1412-36	C-1124	Total/NA	Solid	8015NM Prep	
890-1412-37	C-1125	Total/NA	Solid	8015NM Prep	
890-1412-38	C-1126	Total/NA	Solid	8015NM Prep	
890-1412-39	C-1127	Total/NA	Solid	8015NM Prep	
890-1412-40	C-1128	Total/NA	Solid	8015NM Prep	
MB 880-10090/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10090/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10090/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1412-21 MS	C-1109	Total/NA	Solid	8015NM Prep	
890-1412-21 MSD	C-1109	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-1	C-1089	Total/NA	Solid	8015 NM	
890-1412-2	C-1090	Total/NA	Solid	8015 NM	
890-1412-3	C-1091	Total/NA	Solid	8015 NM	
890-1412-4	C-1092	Total/NA	Solid	8015 NM	
890-1412-5	C-1093	Total/NA	Solid	8015 NM	
890-1412-6	C-1094	Total/NA	Solid	8015 NM	
890-1412-7	C-1095	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 10196 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-8	C-1096	Total/NA	Solid	8015 NM	
890-1412-9	C-1097	Total/NA	Solid	8015 NM	
890-1412-10	C-1098	Total/NA	Solid	8015 NM	
890-1412-11	C-1099	Total/NA	Solid	8015 NM	
890-1412-12	C-1100	Total/NA	Solid	8015 NM	
890-1412-13	C-1101	Total/NA	Solid	8015 NM	
890-1412-14	C-1102	Total/NA	Solid	8015 NM	
890-1412-15	C-1103	Total/NA	Solid	8015 NM	
890-1412-16	C-1104	Total/NA	Solid	8015 NM	
890-1412-17	C-1105	Total/NA	Solid	8015 NM	
890-1412-18	C-1106	Total/NA	Solid	8015 NM	
890-1412-19	C-1107	Total/NA	Solid	8015 NM	
890-1412-20	C-1108	Total/NA	Solid	8015 NM	
890-1412-21	C-1109	Total/NA	Solid	8015 NM	
890-1412-22	C-1110	Total/NA	Solid	8015 NM	
890-1412-23	C-1111	Total/NA	Solid	8015 NM	
890-1412-24	C-1112	Total/NA	Solid	8015 NM	
890-1412-25	C-1113	Total/NA	Solid	8015 NM	
890-1412-26	C-1114	Total/NA	Solid	8015 NM	
890-1412-27	C-1115	Total/NA	Solid	8015 NM	
890-1412-28	C-1116	Total/NA	Solid	8015 NM	
890-1412-29	C-1117	Total/NA	Solid	8015 NM	
890-1412-30	C-1118	Total/NA	Solid	8015 NM	
890-1412-31	C-1119	Total/NA	Solid	8015 NM	
890-1412-32	C-1120	Total/NA	Solid	8015 NM	
890-1412-33	C-1121	Total/NA	Solid	8015 NM	
890-1412-34	C-1122	Total/NA	Solid	8015 NM	
890-1412-35	C-1123	Total/NA	Solid	8015 NM	
890-1412-36	C-1124	Total/NA	Solid	8015 NM	
890-1412-37	C-1125	Total/NA	Solid	8015 NM	
890-1412-38	C-1126	Total/NA	Solid	8015 NM	
890-1412-39	C-1127	Total/NA	Solid	8015 NM	
890-1412-40	C-1128	Total/NA	Solid	8015 NM	
890-1412-41	C-1129	Total/NA	Solid	8015 NM	
890-1412-42	C-1130	Total/NA	Solid	8015 NM	
890-1412-43	C-1131	Total/NA	Solid	8015 NM	
890-1412-44	C-1132	Total/NA	Solid	8015 NM	
890-1412-45	C-1133	Total/NA	Solid	8015 NM	
890-1412-46	C-1134	Total/NA	Solid	8015 NM	
890-1412-47	C-1135	Total/NA	Solid	8015 NM	
890-1412-48	C-1136	Total/NA	Solid	8015 NM	
890-1412-49	C-1137	Total/NA	Solid	8015 NM	
890-1412-50	C-1138	Total/NA	Solid	8015 NM	
890-1412-51	C-1139	Total/NA	Solid	8015 NM	
890-1412-52	C-1140	Total/NA	Solid	8015 NM	
890-1412-53	C-1141	Total/NA	Solid	8015 NM	
890-1412-54	C-1142	Total/NA	Solid	8015 NM	
890-1412-55	C-1143	Total/NA	Solid	8015 NM	
890-1412-56	C-1144	Total/NA	Solid	8015 NM	
890-1412-57	C-1145	Total/NA	Solid	8015 NM	
890-1412-58	C-1146	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 10196 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-59	C-1147	Total/NA	Solid	8015 NM	
890-1412-60	C-1148	Total/NA	Solid	8015 NM	
890-1412-61	C-1149	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 9716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-24	C-1112	Soluble	Solid	DI Leach	
890-1412-25	C-1113	Soluble	Solid	DI Leach	
890-1412-26	C-1114	Soluble	Solid	DI Leach	
890-1412-27	C-1115	Soluble	Solid	DI Leach	
890-1412-28	C-1116	Soluble	Solid	DI Leach	
890-1412-29	C-1117	Soluble	Solid	DI Leach	
890-1412-30	C-1118	Soluble	Solid	DI Leach	
890-1412-31	C-1119	Soluble	Solid	DI Leach	
890-1412-32	C-1120	Soluble	Solid	DI Leach	
890-1412-33	C-1121	Soluble	Solid	DI Leach	
890-1412-34	C-1122	Soluble	Solid	DI Leach	
890-1412-35	C-1123	Soluble	Solid	DI Leach	
890-1412-36	C-1124	Soluble	Solid	DI Leach	
890-1412-37	C-1125	Soluble	Solid	DI Leach	
890-1412-38	C-1126	Soluble	Solid	DI Leach	
890-1412-39	C-1127	Soluble	Solid	DI Leach	
890-1412-40	C-1128	Soluble	Solid	DI Leach	
MB 880-9716/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9716/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9716/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1412-31 MS	C-1119	Soluble	Solid	DI Leach	
890-1412-31 MSD	C-1119	Soluble	Solid	DI Leach	

Leach Batch: 9718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-41	C-1129	Soluble	Solid	DI Leach	
890-1412-42	C-1130	Soluble	Solid	DI Leach	
890-1412-43	C-1131	Soluble	Solid	DI Leach	
890-1412-44	C-1132	Soluble	Solid	DI Leach	
890-1412-45	C-1133	Soluble	Solid	DI Leach	
890-1412-46	C-1134	Soluble	Solid	DI Leach	
890-1412-47	C-1135	Soluble	Solid	DI Leach	
890-1412-48	C-1136	Soluble	Solid	DI Leach	
890-1412-49	C-1137	Soluble	Solid	DI Leach	
890-1412-50	C-1138	Soluble	Solid	DI Leach	
890-1412-51	C-1139	Soluble	Solid	DI Leach	
890-1412-52	C-1140	Soluble	Solid	DI Leach	
890-1412-53	C-1141	Soluble	Solid	DI Leach	
890-1412-54	C-1142	Soluble	Solid	DI Leach	
890-1412-55	C-1143	Soluble	Solid	DI Leach	
890-1412-56	C-1144	Soluble	Solid	DI Leach	
890-1412-57	C-1145	Soluble	Solid	DI Leach	
890-1412-58	C-1146	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 9718 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-59	C-1147	Soluble	Solid	DI Leach	
890-1412-60	C-1148	Soluble	Solid	DI Leach	
MB 880-9718/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9718/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9718/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1412-41 MS	C-1129	Soluble	Solid	DI Leach	
890-1412-41 MSD	C-1129	Soluble	Solid	DI Leach	
890-1412-51 MS	C-1139	Soluble	Solid	DI Leach	
890-1412-51 MSD	C-1139	Soluble	Solid	DI Leach	

Leach Batch: 9720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-61	C-1149	Soluble	Solid	DI Leach	
MB 880-9720/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9720/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9720/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 9721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-1	C-1089	Soluble	Solid	DI Leach	
890-1412-2	C-1090	Soluble	Solid	DI Leach	
890-1412-3	C-1091	Soluble	Solid	DI Leach	
890-1412-4	C-1092	Soluble	Solid	DI Leach	
MB 880-9721/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9721/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9721/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 9722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-5	C-1093	Soluble	Solid	DI Leach	
890-1412-6	C-1094	Soluble	Solid	DI Leach	
890-1412-7	C-1095	Soluble	Solid	DI Leach	
890-1412-8	C-1096	Soluble	Solid	DI Leach	
890-1412-9	C-1097	Soluble	Solid	DI Leach	
890-1412-10	C-1098	Soluble	Solid	DI Leach	
890-1412-11	C-1099	Soluble	Solid	DI Leach	
890-1412-12	C-1100	Soluble	Solid	DI Leach	
890-1412-13	C-1101	Soluble	Solid	DI Leach	
890-1412-14	C-1102	Soluble	Solid	DI Leach	
890-1412-15	C-1103	Soluble	Solid	DI Leach	
890-1412-16	C-1104	Soluble	Solid	DI Leach	
890-1412-17	C-1105	Soluble	Solid	DI Leach	
890-1412-18	C-1106	Soluble	Solid	DI Leach	
890-1412-19	C-1107	Soluble	Solid	DI Leach	
890-1412-20	C-1108	Soluble	Solid	DI Leach	
890-1412-21	C-1109	Soluble	Solid	DI Leach	
890-1412-22	C-1110	Soluble	Solid	DI Leach	
890-1412-23	C-1111	Soluble	Solid	DI Leach	
MB 880-9722/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9722/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9722/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 9722 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-5 MS	C-1093	Soluble	Solid	DI Leach	
890-1412-5 MSD	C-1093	Soluble	Solid	DI Leach	
890-1412-15 MS	C-1103	Soluble	Solid	DI Leach	
890-1412-15 MSD	C-1103	Soluble	Solid	DI Leach	

Analysis Batch: 9814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-24	C-1112	Soluble	Solid	300.0	9716
890-1412-25	C-1113	Soluble	Solid	300.0	9716
890-1412-26	C-1114	Soluble	Solid	300.0	9716
890-1412-27	C-1115	Soluble	Solid	300.0	9716
890-1412-28	C-1116	Soluble	Solid	300.0	9716
890-1412-29	C-1117	Soluble	Solid	300.0	9716
890-1412-30	C-1118	Soluble	Solid	300.0	9716
890-1412-31	C-1119	Soluble	Solid	300.0	9716
890-1412-32	C-1120	Soluble	Solid	300.0	9716
890-1412-33	C-1121	Soluble	Solid	300.0	9716
890-1412-34	C-1122	Soluble	Solid	300.0	9716
890-1412-35	C-1123	Soluble	Solid	300.0	9716
890-1412-36	C-1124	Soluble	Solid	300.0	9716
890-1412-37	C-1125	Soluble	Solid	300.0	9716
890-1412-38	C-1126	Soluble	Solid	300.0	9716
890-1412-39	C-1127	Soluble	Solid	300.0	9716
890-1412-40	C-1128	Soluble	Solid	300.0	9716
MB 880-9716/1-A	Method Blank	Soluble	Solid	300.0	9716
LCS 880-9716/2-A	Lab Control Sample	Soluble	Solid	300.0	9716
LCSD 880-9716/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9716
890-1412-31 MS	C-1119	Soluble	Solid	300.0	9716
890-1412-31 MSD	C-1119	Soluble	Solid	300.0	9716

Analysis Batch: 9829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-61	C-1149	Soluble	Solid	300.0	9720
MB 880-9720/1-A	Method Blank	Soluble	Solid	300.0	9720
LCS 880-9720/2-A	Lab Control Sample	Soluble	Solid	300.0	9720
LCSD 880-9720/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9720

Analysis Batch: 9830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-1	C-1089	Soluble	Solid	300.0	9721
890-1412-2	C-1090	Soluble	Solid	300.0	9721
890-1412-3	C-1091	Soluble	Solid	300.0	9721
890-1412-4	C-1092	Soluble	Solid	300.0	9721
MB 880-9721/1-A	Method Blank	Soluble	Solid	300.0	9721
LCS 880-9721/2-A	Lab Control Sample	Soluble	Solid	300.0	9721
LCSD 880-9721/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9721

Analysis Batch: 9831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-5	C-1093	Soluble	Solid	300.0	9722
890-1412-6	C-1094	Soluble	Solid	300.0	9722

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 9831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-7	C-1095	Soluble	Solid	300.0	9722
890-1412-8	C-1096	Soluble	Solid	300.0	9722
890-1412-9	C-1097	Soluble	Solid	300.0	9722
890-1412-10	C-1098	Soluble	Solid	300.0	9722
890-1412-11	C-1099	Soluble	Solid	300.0	9722
890-1412-12	C-1100	Soluble	Solid	300.0	9722
890-1412-13	C-1101	Soluble	Solid	300.0	9722
890-1412-14	C-1102	Soluble	Solid	300.0	9722
890-1412-15	C-1103	Soluble	Solid	300.0	9722
890-1412-16	C-1104	Soluble	Solid	300.0	9722
890-1412-17	C-1105	Soluble	Solid	300.0	9722
890-1412-18	C-1106	Soluble	Solid	300.0	9722
890-1412-19	C-1107	Soluble	Solid	300.0	9722
890-1412-20	C-1108	Soluble	Solid	300.0	9722
890-1412-21	C-1109	Soluble	Solid	300.0	9722
890-1412-22	C-1110	Soluble	Solid	300.0	9722
890-1412-23	C-1111	Soluble	Solid	300.0	9722
MB 880-9722/1-A	Method Blank	Soluble	Solid	300.0	9722
LCS 880-9722/2-A	Lab Control Sample	Soluble	Solid	300.0	9722
LCSD 880-9722/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9722
890-1412-5 MS	C-1093	Soluble	Solid	300.0	9722
890-1412-5 MSD	C-1093	Soluble	Solid	300.0	9722
890-1412-15 MS	C-1103	Soluble	Solid	300.0	9722
890-1412-15 MSD	C-1103	Soluble	Solid	300.0	9722

Analysis Batch: 9837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-41	C-1129	Soluble	Solid	300.0	9718
890-1412-42	C-1130	Soluble	Solid	300.0	9718
890-1412-43	C-1131	Soluble	Solid	300.0	9718
890-1412-44	C-1132	Soluble	Solid	300.0	9718
890-1412-45	C-1133	Soluble	Solid	300.0	9718
890-1412-46	C-1134	Soluble	Solid	300.0	9718
890-1412-47	C-1135	Soluble	Solid	300.0	9718
890-1412-48	C-1136	Soluble	Solid	300.0	9718
890-1412-49	C-1137	Soluble	Solid	300.0	9718
890-1412-50	C-1138	Soluble	Solid	300.0	9718
890-1412-51	C-1139	Soluble	Solid	300.0	9718
890-1412-52	C-1140	Soluble	Solid	300.0	9718
890-1412-53	C-1141	Soluble	Solid	300.0	9718
890-1412-54	C-1142	Soluble	Solid	300.0	9718
890-1412-55	C-1143	Soluble	Solid	300.0	9718
890-1412-56	C-1144	Soluble	Solid	300.0	9718
890-1412-57	C-1145	Soluble	Solid	300.0	9718
890-1412-58	C-1146	Soluble	Solid	300.0	9718
890-1412-59	C-1147	Soluble	Solid	300.0	9718
890-1412-60	C-1148	Soluble	Solid	300.0	9718
MB 880-9718/1-A	Method Blank	Soluble	Solid	300.0	9718
LCS 880-9718/2-A	Lab Control Sample	Soluble	Solid	300.0	9718
LCSD 880-9718/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9718
890-1412-41 MS	C-1129	Soluble	Solid	300.0	9718

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 9837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1412-41 MSD	C-1129	Soluble	Solid	300.0	9718
890-1412-51 MS	C-1139	Soluble	Solid	300.0	9718
890-1412-51 MSD	C-1139	Soluble	Solid	300.0	9718

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1089

Date Collected: 10/13/21 08:19

Date Received: 10/13/21 15:43

Lab Sample ID: 890-1412-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 14:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 16:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		5			9830	10/19/21 14:59	CH	XEN MID

Client Sample ID: C-1090

Date Collected: 10/13/21 08:20

Date Received: 10/13/21 15:43

Lab Sample ID: 890-1412-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 15:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 17:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		5			9830	10/19/21 15:06	CH	XEN MID

Client Sample ID: C-1091

Date Collected: 10/13/21 08:21

Date Received: 10/13/21 15:43

Lab Sample ID: 890-1412-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 15:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 17:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		1			9830	10/19/21 15:12	CH	XEN MID

Client Sample ID: C-1092

Date Collected: 10/13/21 08:22

Date Received: 10/13/21 15:43

Lab Sample ID: 890-1412-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 16:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1092

Date Collected: 10/13/21 08:22

Date Received: 10/13/21 15:43

Lab Sample ID: 890-1412-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 18:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		5			9830	10/19/21 15:18	CH	XEN MID

Client Sample ID: C-1093

Date Collected: 10/13/21 08:23

Date Received: 10/13/21 15:43

Lab Sample ID: 890-1412-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 16:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 18:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 16:47	CH	XEN MID

Client Sample ID: C-1094

Date Collected: 10/13/21 08:24

Date Received: 10/13/21 15:43

Lab Sample ID: 890-1412-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 16:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 17:06	CH	XEN MID

Client Sample ID: C-1095

Date Collected: 10/13/21 08:25

Date Received: 10/13/21 15:43

Lab Sample ID: 890-1412-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 17:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 19:18	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1095

Date Collected: 10/13/21 08:25

Date Received: 10/13/21 15:43

Lab Sample ID: 890-1412-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 17:12	CH	XEN MID

Client Sample ID: C-1096

Date Collected: 10/13/21 08:26

Date Received: 10/13/21 15:43

Lab Sample ID: 890-1412-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 17:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 19:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 17:18	CH	XEN MID

Client Sample ID: C-1097

Date Collected: 10/13/21 08:27

Date Received: 10/13/21 15:43

Lab Sample ID: 890-1412-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 17:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 19:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 17:25	CH	XEN MID

Client Sample ID: C-1098

Date Collected: 10/13/21 08:28

Date Received: 10/13/21 15:43

Lab Sample ID: 890-1412-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 18:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 20:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 17:44	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1099

Lab Sample ID: 890-1412-11

Date Collected: 10/13/21 08:29

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 19:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 21:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 17:50	CH	XEN MID

Client Sample ID: C-1100

Lab Sample ID: 890-1412-12

Date Collected: 10/13/21 08:30

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 20:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 21:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 17:56	CH	XEN MID

Client Sample ID: C-1101

Lab Sample ID: 890-1412-13

Date Collected: 10/13/21 08:31

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 20:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 21:43	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 18:02	CH	XEN MID

Client Sample ID: C-1102

Lab Sample ID: 890-1412-14

Date Collected: 10/13/21 08:32

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 20:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1102

Lab Sample ID: 890-1412-14

Date Collected: 10/13/21 08:32

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 22:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 18:09	CH	XEN MID

Client Sample ID: C-1103

Lab Sample ID: 890-1412-15

Date Collected: 10/13/21 08:33

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 21:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 22:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 18:15	CH	XEN MID

Client Sample ID: C-1104

Lab Sample ID: 890-1412-16

Date Collected: 10/13/21 08:34

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 21:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 22:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 18:34	CH	XEN MID

Client Sample ID: C-1105

Lab Sample ID: 890-1412-17

Date Collected: 10/13/21 08:35

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 21:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 23:07	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1105

Lab Sample ID: 890-1412-17

Date Collected: 10/13/21 08:35

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 18:40	CH	XEN MID

Client Sample ID: C-1106

Lab Sample ID: 890-1412-18

Date Collected: 10/13/21 08:36

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 22:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 23:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 18:59	CH	XEN MID

Client Sample ID: C-1107

Lab Sample ID: 890-1412-19

Date Collected: 10/13/21 08:37

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 22:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/21/21 23:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 19:06	CH	XEN MID

Client Sample ID: C-1108

Lab Sample ID: 890-1412-20

Date Collected: 10/13/21 11:18

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9756	10/18/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/20/21 22:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10060	10/21/21 09:06	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10055	10/22/21 00:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 19:12	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1109

Lab Sample ID: 890-1412-21

Date Collected: 10/13/21 11:19

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 04:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 16:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 19:18	CH	XEN MID

Client Sample ID: C-1110

Lab Sample ID: 890-1412-22

Date Collected: 10/13/21 11:20

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 04:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 17:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 19:25	CH	XEN MID

Client Sample ID: C-1111

Lab Sample ID: 890-1412-23

Date Collected: 10/13/21 11:21

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 04:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 17:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9722	10/18/21 13:53	CA	XEN MID
Soluble	Analysis	300.0		1			9831	10/19/21 19:31	CH	XEN MID

Client Sample ID: C-1112

Lab Sample ID: 890-1412-24

Date Collected: 10/13/21 11:22

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 05:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1112

Lab Sample ID: 890-1412-24

Date Collected: 10/13/21 11:22

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 18:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		1			9814	10/19/21 02:55	SC	XEN MID

Client Sample ID: C-1113

Lab Sample ID: 890-1412-25

Date Collected: 10/13/21 11:23

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 05:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 18:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		1			9814	10/19/21 03:01	SC	XEN MID

Client Sample ID: C-1114

Lab Sample ID: 890-1412-26

Date Collected: 10/13/21 11:24

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 06:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		1			9814	10/19/21 03:18	SC	XEN MID

Client Sample ID: C-1115

Lab Sample ID: 890-1412-27

Date Collected: 10/13/21 11:25

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 06:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 19:18	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1115

Lab Sample ID: 890-1412-27

Date Collected: 10/13/21 11:25

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		1			9814	10/19/21 03:23	SC	XEN MID

Client Sample ID: C-1116

Lab Sample ID: 890-1412-28

Date Collected: 10/13/21 11:26

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 07:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 19:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		1			9814	10/19/21 03:29	SC	XEN MID

Client Sample ID: C-1117

Lab Sample ID: 890-1412-29

Date Collected: 10/13/21 11:27

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 07:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 19:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		1			9814	10/19/21 03:34	SC	XEN MID

Client Sample ID: C-1118

Lab Sample ID: 890-1412-30

Date Collected: 10/13/21 11:28

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 07:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 20:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		1			9814	10/19/21 03:40	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1119

Lab Sample ID: 890-1412-31

Date Collected: 10/13/21 11:29

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 09:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 21:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		5			9814	10/19/21 03:45	SC	XEN MID

Client Sample ID: C-1120

Lab Sample ID: 890-1412-32

Date Collected: 10/13/21 11:30

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 10:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 21:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		5			9814	10/19/21 04:02	SC	XEN MID

Client Sample ID: C-1121

Lab Sample ID: 890-1412-33

Date Collected: 10/13/21 11:31

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 10:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 21:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		10			9814	10/19/21 04:08	SC	XEN MID

Client Sample ID: C-1122

Lab Sample ID: 890-1412-34

Date Collected: 10/13/21 11:32

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 10:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1122

Lab Sample ID: 890-1412-34

Date Collected: 10/13/21 11:32

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 22:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		5			9814	10/19/21 04:25	SC	XEN MID

Client Sample ID: C-1123

Lab Sample ID: 890-1412-35

Date Collected: 10/13/21 11:33

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 11:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 22:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		5			9814	10/19/21 04:31	SC	XEN MID

Client Sample ID: C-1124

Lab Sample ID: 890-1412-36

Date Collected: 10/13/21 11:34

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 11:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 22:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		5			9814	10/19/21 04:36	SC	XEN MID

Client Sample ID: C-1125

Lab Sample ID: 890-1412-37

Date Collected: 10/13/21 11:35

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 12:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 23:07	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1125

Lab Sample ID: 890-1412-37

Date Collected: 10/13/21 11:35

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		5			9814	10/19/21 04:42	SC	XEN MID

Client Sample ID: C-1126

Lab Sample ID: 890-1412-38

Date Collected: 10/13/21 11:36

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 12:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 23:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		5			9814	10/19/21 04:47	SC	XEN MID

Client Sample ID: C-1127

Lab Sample ID: 890-1412-39

Date Collected: 10/13/21 11:37

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 13:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/21/21 23:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		1			9814	10/19/21 04:53	SC	XEN MID

Client Sample ID: C-1128

Lab Sample ID: 890-1412-40

Date Collected: 10/13/21 11:38

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9758	10/18/21 14:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9936	10/21/21 13:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10090	10/21/21 11:40	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10057	10/22/21 00:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		5			9814	10/19/21 04:59	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1129

Lab Sample ID: 890-1412-41

Date Collected: 10/13/21 11:39

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9909	10/19/21 15:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/21/21 03:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 12:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		10			9837	10/21/21 01:53	CH	XEN MID

Client Sample ID: C-1130

Lab Sample ID: 890-1412-42

Date Collected: 10/13/21 11:40

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9909	10/19/21 15:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/21/21 03:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 13:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		5			9837	10/21/21 02:15	CH	XEN MID

Client Sample ID: C-1131

Lab Sample ID: 890-1412-43

Date Collected: 10/13/21 11:41

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9909	10/19/21 15:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/21/21 04:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 14:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		10			9837	10/21/21 02:22	CH	XEN MID

Client Sample ID: C-1132

Lab Sample ID: 890-1412-44

Date Collected: 10/13/21 11:42

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9909	10/19/21 15:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/21/21 04:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1132

Lab Sample ID: 890-1412-44

Date Collected: 10/13/21 11:42

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		5			9837	10/21/21 02:29	CH	XEN MID

Client Sample ID: C-1133

Lab Sample ID: 890-1412-45

Date Collected: 10/13/21 11:43

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9909	10/19/21 15:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/21/21 04:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 14:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		5			9837	10/21/21 02:36	CH	XEN MID

Client Sample ID: C-1134

Lab Sample ID: 890-1412-46

Date Collected: 10/13/21 11:44

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9909	10/19/21 15:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/21/21 05:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 15:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		5			9837	10/21/21 02:58	CH	XEN MID

Client Sample ID: C-1135

Lab Sample ID: 890-1412-47

Date Collected: 10/13/21 11:45

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9909	10/19/21 15:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/21/21 05:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:28	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 15:35	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1135

Lab Sample ID: 890-1412-47

Date Collected: 10/13/21 11:45

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		5			9837	10/21/21 03:05	CH	XEN MID

Client Sample ID: C-1136

Lab Sample ID: 890-1412-48

Date Collected: 10/13/21 11:46

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9909	10/19/21 15:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/21/21 05:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 15:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		5			9837	10/21/21 03:12	CH	XEN MID

Client Sample ID: C-1137

Lab Sample ID: 890-1412-49

Date Collected: 10/13/21 11:47

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9909	10/19/21 15:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/21/21 06:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 16:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		1			9837	10/21/21 03:19	CH	XEN MID

Client Sample ID: C-1138

Lab Sample ID: 890-1412-50

Date Collected: 10/13/21 12:58

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9909	10/19/21 15:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/21/21 06:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 16:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		1			9837	10/21/21 03:26	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1139

Lab Sample ID: 890-1412-51

Date Collected: 10/13/21 12:59

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10378	10/25/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10380	10/26/21 01:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 17:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		1			9837	10/21/21 03:33	CH	XEN MID

Client Sample ID: C-1140

Lab Sample ID: 890-1412-52

Date Collected: 10/13/21 13:00

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10378	10/25/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10380	10/26/21 01:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 17:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		1			9837	10/21/21 03:55	CH	XEN MID

Client Sample ID: C-1141

Lab Sample ID: 890-1412-53

Date Collected: 10/13/21 13:01

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10378	10/25/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10380	10/26/21 04:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 17:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 18:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		1			9837	10/21/21 04:02	CH	XEN MID

Client Sample ID: C-1142

Lab Sample ID: 890-1412-54

Date Collected: 10/13/21 13:02

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10378	10/25/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10380	10/26/21 02:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 18:48	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1142

Lab Sample ID: 890-1412-54

Date Collected: 10/13/21 13:02

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 18:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		1			9837	10/21/21 04:23	CH	XEN MID

Client Sample ID: C-1143

Lab Sample ID: 890-1412-55

Date Collected: 10/13/21 13:03

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10378	10/25/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10380	10/26/21 02:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 18:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 18:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		1			9837	10/21/21 04:31	CH	XEN MID

Client Sample ID: C-1144

Lab Sample ID: 890-1412-56

Date Collected: 10/13/21 13:04

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	10378	10/25/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10380	10/26/21 02:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 18:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 19:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		1			9837	10/21/21 04:38	CH	XEN MID

Client Sample ID: C-1145

Lab Sample ID: 890-1412-57

Date Collected: 10/13/21 13:05

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	10378	10/25/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10380	10/26/21 03:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 18:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 19:28	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1145

Lab Sample ID: 890-1412-57

Date Collected: 10/13/21 13:05

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		1			9837	10/21/21 04:45	CH	XEN MID

Client Sample ID: C-1146

Lab Sample ID: 890-1412-58

Date Collected: 10/13/21 13:06

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10378	10/25/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10380	10/26/21 03:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 18:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9955	10/20/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9931	10/20/21 19:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		1			9837	10/21/21 04:52	CH	XEN MID

Client Sample ID: C-1147

Lab Sample ID: 890-1412-59

Date Collected: 10/13/21 13:07

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	10378	10/25/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10380	10/26/21 03:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 18:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9955	10/20/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9931	10/20/21 19:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		1			9837	10/21/21 04:59	CH	XEN MID

Client Sample ID: C-1148

Lab Sample ID: 890-1412-60

Date Collected: 10/13/21 13:08

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10378	10/25/21 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10380	10/26/21 04:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 18:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9955	10/20/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9931	10/20/21 19:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9718	10/18/21 13:40	CA	XEN MID
Soluble	Analysis	300.0		1			9837	10/21/21 05:06	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Client Sample ID: C-1149

Lab Sample ID: 890-1412-61

Date Collected: 10/13/21 13:09

Matrix: Solid

Date Received: 10/13/21 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9908	10/19/21 14:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/21/21 04:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10526	10/25/21 18:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:39	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9955	10/20/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9931	10/20/21 20:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 11:31	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1412-1	C-1089	Solid	10/13/21 08:19	10/13/21 15:43
890-1412-2	C-1090	Solid	10/13/21 08:20	10/13/21 15:43
890-1412-3	C-1091	Solid	10/13/21 08:21	10/13/21 15:43
890-1412-4	C-1092	Solid	10/13/21 08:22	10/13/21 15:43
890-1412-5	C-1093	Solid	10/13/21 08:23	10/13/21 15:43
890-1412-6	C-1094	Solid	10/13/21 08:24	10/13/21 15:43
890-1412-7	C-1095	Solid	10/13/21 08:25	10/13/21 15:43
890-1412-8	C-1096	Solid	10/13/21 08:26	10/13/21 15:43
890-1412-9	C-1097	Solid	10/13/21 08:27	10/13/21 15:43
890-1412-10	C-1098	Solid	10/13/21 08:28	10/13/21 15:43
890-1412-11	C-1099	Solid	10/13/21 08:29	10/13/21 15:43
890-1412-12	C-1100	Solid	10/13/21 08:30	10/13/21 15:43
890-1412-13	C-1101	Solid	10/13/21 08:31	10/13/21 15:43
890-1412-14	C-1102	Solid	10/13/21 08:32	10/13/21 15:43
890-1412-15	C-1103	Solid	10/13/21 08:33	10/13/21 15:43
890-1412-16	C-1104	Solid	10/13/21 08:34	10/13/21 15:43
890-1412-17	C-1105	Solid	10/13/21 08:35	10/13/21 15:43
890-1412-18	C-1106	Solid	10/13/21 08:36	10/13/21 15:43
890-1412-19	C-1107	Solid	10/13/21 08:37	10/13/21 15:43
890-1412-20	C-1108	Solid	10/13/21 11:18	10/13/21 15:43
890-1412-21	C-1109	Solid	10/13/21 11:19	10/13/21 15:43
890-1412-22	C-1110	Solid	10/13/21 11:20	10/13/21 15:43
890-1412-23	C-1111	Solid	10/13/21 11:21	10/13/21 15:43
890-1412-24	C-1112	Solid	10/13/21 11:22	10/13/21 15:43
890-1412-25	C-1113	Solid	10/13/21 11:23	10/13/21 15:43
890-1412-26	C-1114	Solid	10/13/21 11:24	10/13/21 15:43
890-1412-27	C-1115	Solid	10/13/21 11:25	10/13/21 15:43
890-1412-28	C-1116	Solid	10/13/21 11:26	10/13/21 15:43
890-1412-29	C-1117	Solid	10/13/21 11:27	10/13/21 15:43
890-1412-30	C-1118	Solid	10/13/21 11:28	10/13/21 15:43
890-1412-31	C-1119	Solid	10/13/21 11:29	10/13/21 15:43
890-1412-32	C-1120	Solid	10/13/21 11:30	10/13/21 15:43
890-1412-33	C-1121	Solid	10/13/21 11:31	10/13/21 15:43
890-1412-34	C-1122	Solid	10/13/21 11:32	10/13/21 15:43
890-1412-35	C-1123	Solid	10/13/21 11:33	10/13/21 15:43
890-1412-36	C-1124	Solid	10/13/21 11:34	10/13/21 15:43
890-1412-37	C-1125	Solid	10/13/21 11:35	10/13/21 15:43
890-1412-38	C-1126	Solid	10/13/21 11:36	10/13/21 15:43
890-1412-39	C-1127	Solid	10/13/21 11:37	10/13/21 15:43
890-1412-40	C-1128	Solid	10/13/21 11:38	10/13/21 15:43
890-1412-41	C-1129	Solid	10/13/21 11:39	10/13/21 15:43
890-1412-42	C-1130	Solid	10/13/21 11:40	10/13/21 15:43
890-1412-43	C-1131	Solid	10/13/21 11:41	10/13/21 15:43
890-1412-44	C-1132	Solid	10/13/21 11:42	10/13/21 15:43
890-1412-45	C-1133	Solid	10/13/21 11:43	10/13/21 15:43
890-1412-46	C-1134	Solid	10/13/21 11:44	10/13/21 15:43
890-1412-47	C-1135	Solid	10/13/21 11:45	10/13/21 15:43
890-1412-48	C-1136	Solid	10/13/21 11:46	10/13/21 15:43
890-1412-49	C-1137	Solid	10/13/21 11:47	10/13/21 15:43
890-1412-50	C-1138	Solid	10/13/21 12:58	10/13/21 15:43
890-1412-51	C-1139	Solid	10/13/21 12:59	10/13/21 15:43
890-1412-52	C-1140	Solid	10/13/21 13:00	10/13/21 15:43
890-1412-53	C-1141	Solid	10/13/21 13:01	10/13/21 15:43
890-1412-54	C-1142	Solid	10/13/21 13:02	10/13/21 15:43
890-1412-55	C-1143	Solid	10/13/21 13:03	10/13/21 15:43

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1412-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1412-56	C-1144	Solid	10/13/21 13:04	10/13/21 15:43
890-1412-57	C-1145	Solid	10/13/21 13:05	10/13/21 15:43
890-1412-58	C-1146	Solid	10/13/21 13:06	10/13/21 15:43
890-1412-59	C-1147	Solid	10/13/21 13:07	10/13/21 15:43
890-1412-60	C-1148	Solid	10/13/21 13:08	10/13/21 15:43
890-1412-61	C-1149	Solid	10/13/21 13:09	10/13/21 15:43

[illegible]

[illegible]

[illegible]

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No. 2139

CHAIN-OF-CUSTODY

Marson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 10/13/2021 PAGE 4 OF 5
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmer 151
LAI PROJECT #: 21-0105-02 COLLECTOR: DS4

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ NaOH

ICE

UNPRESSERVED

ANALYSES

BTEX, MTBE

TRPH 418 1

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PCBS

TCLP - METALS (RCRA)

TCLP - PEST

TOTAL METALS (RCRA)

LEAD - TOTAL

RCI - TOX

TDS - JTSS

pH

EXPLOSIVES

CHLORIDE

FIELD NOTES

TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER	
☐ Yes ☒ No					
TIME ZONE: Time zone/State					
MST/NA					
Field Sample ID	Lab #	Date	Time	Matrix	# of Containers
C-1134		10/13/2021	1144	S	1
C-1135			1145		
C-1136			1146		
C-1137			1147		
C-1138			1258		
C-1139			1259		
C-1140			1300		
C-1141			1301		
C-1142			1302		
C-1143			1303		
C-1144			1304		
C-1145			1305		
C-1146			1306		
C-1147			1307		
C-1148			1308		
PRESERVATION					
HCl					
HNO ₃					
H ₂ SO ₄ ☐ NaOH ☐					
ICE					
UNPRESSERVED					
ANALYSES					
BTEX ☒ MTBE ☐					
TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐					
GASOLINE MOD 8015 ☒					
DIESEL - MOD 8015 ☒					
OIL - MOD 8015 ☒					
VOC 8260 ☒					
SVOC 8270 ☐					
8081 PESTICIDES ☐					
8082 PCBS ☐					
TCLP - METALS (RCRA) ☐					
TCLP - PEST ☐					
TOTAL METALS (RCRA) ☐					
LEAD - TOTAL ☐					
RCI ☐					
TOX ☐					
TDS ☐					
JTSS ☐					
FLASHPOINT ☐					
% MOISTURE ☐					
pH ☐					
HEXAVALENT CHROMIUM ☐					
EXPLOSIVES ☐					
PECHLORATE ☐					
CHLORIDE ☒					
ANIONS ☐					
ALKALINITY ☐					
FIELD NOTES					

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

NORMAL ☒

RECEIVING TEMP

THERM#

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

1 DAY ☐CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

LABORATORY: MAAD☐ HAND DELIVERED

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No. 2140

CHAIN-OF-CUSTODY

Varson & Associates, Inc.
Environmental Consultants

507 N. Marlenfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 10/13/2021 PAGE 5 OF 5
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmier 1357
LAI PROJECT #: 21-0105-02 COLLECTOR: 1256

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄

NaOH

ICE

UNPRESERVED

ANALYSES

BTEX-MTBE

TPH 418.1

TPH 1005

TPH 1006

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

PAH 8270

PAH 8270

HOLDPAH

8081 PESTICIDES

8151 HERBICIDES

TCLP - METALS (RCRA)

TCLP - PEST

TOTAL METALS (RCRA)

LEAD - TOTAL

TOX

TSS

FLASHPOINT

% MOISTURE

CYANIDE

PCHLORATE

EXPLOSIVES

CHLORIDES

ANIONS

ALKALINITY

FIELD NOTES

TOTAL

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

NORMAL

RECEIVING TEMP

THERM#

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

1 DAY

CUSTODY SEALS

BROKEN

INTACT

NOT USED

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

2 DAY

CARRIER BILL #

HAND DELIVERED

LABORATORY

X

X

X

X

X

X

X

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



eurofins

Environment Testing America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No					
Client Contact: Shipping/Receiving				Phone:	E-Mail: holly.taylor@eurofinsnet.com	State of Origin: New Mexico	890-462 1					
Company: Eurofins Xenco				Accreditations Required (See note)		Page: 1 of 7						
Address: 1211 W Florida Ave.				NE LAP - Louisiana, NE LAP - Texas		Job #						
City: Midland				Analysis Requested		Preservation Codes						
State, Zip: TX, 79701				TAT Requested (days):		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amelior H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:						
Phone: 432-704-5440(Tel)				PO #:		M - Hexane N - None O - AsH2O2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)						
Email:				WO #:								
Project Name: Palmito AST				Project #: 89000025								
Site:				SSOW#:								
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=BT-tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers		Special Instructions/Note:
C-1089 (890-1412-1)	10/13/21	08 19	Mountain	Solid				X	X	X	X	
C-1090 (890-1412-2)	10/13/21	08 20	Mountain	Solid				X	X	X	X	
C-1091 (890-1412-3)	10/13/21	08 21	Mountain	Solid				X	X	X	X	
C-1092 (890-1412-4)	10/13/21	08 22	Mountain	Solid				X	X	X	X	
C-1093 (890-1412-5)	10/13/21	08 23	Mountain	Solid				X	X	X	X	
C-1094 (890-1412-6)	10/13/21	08 24	Mountain	Solid				X	X	X	X	
C-1095 (890-1412-7)	10/13/21	08 25	Mountain	Solid				X	X	X	X	
C-1096 (890-1412-8)	10/13/21	08 26	Mountain	Solid				X	X	X	X	
C-1097 (890-1412-9)	10/13/21	08 27	Mountain	Solid				X	X	X	X	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/shipment being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested I, II, III, IV, Other (Specify) _____ Primary Deliverable Rank 2

Empty Kit Relinquished by _____ Date: _____

Relinquished by Chae 10.14.21 Date/Time: _____ Company: _____

Relinquished by _____ Date/Time: _____ Company: _____

Relinquished by _____ Date/Time: _____ Company: _____

Custody Seals Intact _____ Custody Seal No _____

Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks: 31/3.2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements

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Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No									
Shipping/Receiving		Phone	Taylor, Holly		890-462 2									
Company		E-Mail	holly.taylor@eurofins.com	State of Origin	Page 2 of 7									
Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		New Mexico										
Address		Due Date Requested	Analysis Requested											
1211 W Florida Ave		10/19/2021	890-1412-1											
City		TAT Requested (days):												
Midland														
State Zip														
TX, 79701														
Phone		PO #												
432-704-5440(Tel)		WO #												
Email		Project #												
		89000025												
Project Name		SSOW#												
Palmo AST														
Site														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH	8016MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6036FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
C-1098 (890-1412-10)	10/13/21	08 28	Mountain	Solid		X	X	X	X	X	X	1		
C-1099 (890-1412-11)	10/13/21	08 29	Mountain	Solid		X	X	X	X	X	X	1		
C-1100 (890-1412-12)	10/13/21	08 30	Mountain	Solid		X	X	X	X	X	X	1		
C-1101 (890-1412-13)	10/13/21	08 31	Mountain	Solid		X	X	X	X	X	X	1		
C-1102 (890-1412-14)	10/13/21	08 32	Mountain	Solid		X	X	X	X	X	X	1		
C-1103 (890-1412-15)	10/13/21	08 33	Mountain	Solid		X	X	X	X	X	X	1		
C-1104 (890-1412-16)	10/13/21	08 34	Mountain	Solid		X	X	X	X	X	X	1		
C-1105 (890-1412-17)	10/13/21	08 35	Mountain	Solid		X	X	X	X	X	X	1		
C-1106 (890-1412-18)	10/13/21	08 36	Mountain	Solid		X	X	X	X	X	X	1		
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I, II, III, IV Other (specify)														
Primary Deliverable Rank: 2														
Special Instructions/QAC Requirements														
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
Empty Kit Relinquished by														
Date/Time														
Company														
Relinquished by														
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Relinquished by														
Date/Time														
Company														
Custody Seals Intact														
Cooler Temperature(s) °C and Other Remarks.														

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Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No					
Shipping/Receiving		Phone	Taylor Holly		890-462.3					
Company		E-Mail	holly.taylor@eurofins.com	State of Origin	Page 3 of 7					
Eurofins Xenco		Accreditations Required (See note)		New Mexico						
Address		NELAP - Louisiana NELAP - Texas		Job #						
1211 W Florida Ave				890-1412-1						
City		TAT Requested (days)		Preservation Codes:						
Midland				A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amnol H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other						
State, Zip				M Hexane N None O AsnO2 P Na2CO3 Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecylhydrate U Acetone V MCAA W pH 4-5 Z other (specify)						
Phone		PO #								
432-704-5440(Tel)		WO #								
Email		Project #								
		89000025								
Project Name		SSOM#								
Palmito AST										
Site										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab, BT=Tissue, A=Air)	Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
C-1107 (890-1412-19)	10/13/21	08 37	Mountain	Solid	X	X	X	X	X	
C-1108 (890-1412-20)	10/13/21	11 18	Mountain	Solid	X	X	X	X	X	
C-1109 (890-1412-21)	10/13/21	11 19	Mountain	Solid	X	X	X	X	X	
C-1110 (890-1412-22)	10/13/21	11 20	Mountain	Solid	X	X	X	X	X	
C-1111 (890-1412-23)	10/13/21	11 21	Mountain	Solid	X	X	X	X	X	
C-1112 (890-1412-24)	10/13/21	11 22	Mountain	Solid	X	X	X	X	X	
C-1113 (890-1412-25)	10/13/21	11 23	Mountain	Solid	X	X	X	X	X	
C-1114 (890-1412-26)	10/13/21	11 24	Mountain	Solid	X	X	X	X	X	
C-1115 (890-1412-27)	10/13/21	11 25	Mountain	Solid	X	X	X	X	X	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysts/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I, II, III, IV Other (specify)										
Primary Deliverable Rank 2										
Empty Kit Relinquished by										
Relinquished by										
Relinquished by										
Relinquished by										
Custody Seals Intact										
Custody Seal No										
Cooler Temperature(s) °C and Other Remarks.										

Eurofins Xenco, Carlsbad

1089 N Canal St

Carlsbad NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing America

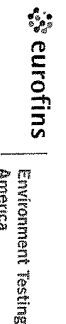
Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact: Taylor, Holly				Phone:	E-Mail: holly.taylor@eurofinsnet.com	State of Origin: New Mexico	890-462 4
Shipping/Receiving				Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Page: Page 4 of 7	Job #:
Company: Eurofins Xenco				Due Date Requested: 10/19/2021		890-1412-1	
Address: 1211 W. Florida Ave.				City: TX, 79701		Midland	
State Zip: TX, 79701				PO #:		432-704-5440(Tel)	
Phone: 432-704-5440(Tel)				W/O #:		Project Name: Palmico AST	
Email:				Project #: 89000025		SSOW#:	
Site:				Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time	
C-1116 (890-1412-28)				10/13/21		11 26	
C-1117 (890-1412-29)				10/13/21		11 27	
C-1118 (890-1412-30)				10/13/21		11 28	
C-1119 (890-1412-31)				10/13/21		11 29	
C-1120 (890-1412-32)				10/13/21		11 30	
C-1121 (890-1412-33)				10/13/21		11 31	
C-1122 (890-1412-34)				10/13/21		11 32	
C-1123 (890-1412-35)				10/13/21		11 33	
C-1124 (890-1412-36)				10/13/21		11 34	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/mark being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client	
Unconfirmed				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Disposal By Lab	
Deliverable Requested I, II, III, IV, Other (Specify)				Primary Deliverable Rank 2		Special Instructions/QC Requirements	
Empty Kit Relinquished by				Date		Time	
Relinquished by: Doe				Date/Time: 10.14.21		Company	
Relinquished by:				Date/Time:		Company	
Relinquished by:				Date/Time:		Company	
Custody Seals Intact:				Custody Seal No		Cooler Temperature(s) °C and Other Remarks.	
A Yes A No							



Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact:		Phone	Taylor, Holly		890-462 5
Shipping/Receiving			E-Mail: holly.taylor@eurofins.com	State of Origin: New Mexico	Page: 5 of 7
Company: Eurofins Xenco			Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1412-1
Address: 1211 W. Florida Ave.		Due Date Requested: 10/19/2021	Analysis Requested		
City: Midland		TAT Requested (days):			
State, Zip: TX, 79701					
Phone: 432-704-5440(Tel)		PO #:			
Email:		WO #:			
Project Name: Palmto AST		Project #: 89000025			
Site:		SSOV#:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, BI=issue As-AN)
C-1125 (890-1412-37)	10/13/21	11 35		Solid	
C-1126 (890-1412-38)	10/13/21	11 36		Solid	
C-1127 (890-1412-39)	10/13/21	11 37		Solid	
C-1128 (890-1412-40)	10/13/21	11 38		Solid	
C-1129 (890-1412-41)	10/13/21	11 39		Solid	
C-1130 (890-1412-42)	10/13/21	11 40		Solid	
C-1131 (890-1412-43)	10/13/21	11 41		Solid	
C-1132 (890-1412-44)	10/13/21	11 42		Solid	
C-1133 (890-1412-45)	10/13/21	11 43		Solid	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I II III IV Other (Specify)		Primary Deliverable Rank: 2		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
				☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Empty Kit Relinquished by		Date	Time	Method of Shipment:	
Relinquished by: <i>OCe</i>		Date/Time:		Received by: <i>Wanner</i>	
Relinquished by:		Date/Time:		Received by:	
Relinquished by:		Date/Time:		Received by:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks	

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Eurofins Xenco Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:									
Client Contact:		Phone:	Taylor Holly		890-462 6									
Shipping/Receiving		E-Mail	holly.taylor@eurofinsnet.com	State of Origin	Page: 6 of 7									
Company	Eurofins Xenco	Accreditations Required (See note)		New Mexico	Job #									
Address	1211 W. Florida Ave.	Due Date Requested	NE LAP - Louisiana, NE LAP - Texas		890-1412-1									
City	Midland	TAT Requested (days)		Analysis Requested										
State Zip:	TX, 79701	PO #:												
Phone:	432-704-5440(Tel)	WFO #:												
Email:		Project #:												
Project Name	Painic AST	SSOW#:												
Site:														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Municipal Sewer, Industrial, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFMM_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
C-1134 (890-1412-46)	10/13/21	11:44	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1135 (890-1412-47)	10/13/21	11:45	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1136 (890-1412-48)	10/13/21	11:46	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1137 (890-1412-49)	10/13/21	11:47	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1138 (890-1412-50)	10/13/21	12:58	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1139 (890-1412-51)	10/13/21	12:59	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1140 (890-1412-52)	10/13/21	13:00	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1141 (890-1412-53)	10/13/21	13:01	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1142 (890-1412-54)	10/13/21	13:02	Mountain	Solid		X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I, II, III, IV Other (specify) Primary Deliverable Rank 2														
Empty Kit Relinquished by Date Time														
Relinquished by Date Time Company														
Relinquished by Date Time Company														
Relinquished by Date Time Company														
Custody Seals Intact: Custody Seal No														
A Yes A No														
Cooler Temperature(s) °C and Other Remarks														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months														
Special Instructions/QC Requirements														
Method of Shipment: Date/Time Company														
Date/Time Company														
Date/Time Company														

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Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler		Lab PM		Carrier Tracking No(s)		COC No																																																																																									
Client Contact		Phone		Taylor, Holly				890-462.7																																																																																									
Shipping/Receiving		E-Mail		holly.taylor@eurofins.com		State of Origin		Page 7 of 7																																																																																									
Company		Eurofins Xenco		Accreditations Required (See note):		NELAP - Louisiana, NELAP - Texas		Job #																																																																																									
Address		1211 W Florida Ave		Due Date Requested		10/19/2021		890-1412-1																																																																																									
City		Midland		TAT Requested (days)																																																																																													
State, Zip		TX, 79701		PO #																																																																																													
Phone		432-704-5440(Tel)		W/O #																																																																																													
Email		Project #		89000025																																																																																													
Project Name		Palmito AST		SSOW#																																																																																													
Site																																																																																																	
<table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=Water, S=Solid, O=Other)</th> <th>Preservation Code</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>Analysis Requested</th> <th>Total Number of containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>C-1143 (890-1412-55)</td> <td>10/13/21</td> <td>13 03</td> <td>Solid</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td>8015MOD_NM/8015NM_S_Prep (MOD) Full TPH</td> <td>X</td> <td></td> </tr> <tr> <td>C-1144 (890-1412-56)</td> <td>10/13/21</td> <td>13 04</td> <td>Solid</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td>8015MOD_Calc</td> <td>X</td> <td></td> </tr> <tr> <td>C-1145 (890-1412-57)</td> <td>10/13/21</td> <td>13 05</td> <td>Solid</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td>300_ORGFM_28D/DI_LEACH Chloride</td> <td>X</td> <td></td> </tr> <tr> <td>C-1146 (890-1412-58)</td> <td>10/13/21</td> <td>13 06</td> <td>Solid</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td>8021B/5035FP_Calc (MOD) BTEX - LL</td> <td>X</td> <td></td> </tr> <tr> <td>C-1147 (890-1412-59)</td> <td>10/13/21</td> <td>13 07</td> <td>Solid</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td>Total_BTEX_GCV</td> <td>X</td> <td></td> </tr> <tr> <td>C-1148 (890-1412-60)</td> <td>10/13/21</td> <td>13 08</td> <td>Solid</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>C-1149 (890-1412-61)</td> <td>10/13/21</td> <td>13 09</td> <td>Solid</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table>										Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Other)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:	C-1143 (890-1412-55)	10/13/21	13 03	Solid	Solid		X	X	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	X		C-1144 (890-1412-56)	10/13/21	13 04	Solid	Solid		X	X	8015MOD_Calc	X		C-1145 (890-1412-57)	10/13/21	13 05	Solid	Solid		X	X	300_ORGFM_28D/DI_LEACH Chloride	X		C-1146 (890-1412-58)	10/13/21	13 06	Solid	Solid		X	X	8021B/5035FP_Calc (MOD) BTEX - LL	X		C-1147 (890-1412-59)	10/13/21	13 07	Solid	Solid		X	X	Total_BTEX_GCV	X		C-1148 (890-1412-60)	10/13/21	13 08	Solid	Solid		X	X		X		C-1149 (890-1412-61)	10/13/21	13 09	Solid	Solid		X	X		X	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Other)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:																																																																																							
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Possible Hazard Identification Unconfirmed ☐ Deliverable Requested I, II, III, IV Other (specify) _____ Primary Deliverable Rank 2 _____ Empty Kit Relinquished by _____ Date _____ Time _____ Method of Shipment: _____ Relinquished by <i>Coe Cifta</i> 10/14/21 Date/Time _____ Company _____ Received by <i>Werner</i> Date/Time _____ Company _____ Relinquished by _____ Date/Time _____ Company _____ Received by _____ Date/Time _____ Company _____ Custody Seals Intact: ☐ Yes ☐ No Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks _____																																																																																																	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1412-1

SDG Number: 21-0105-02

Login Number: 1412**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1412-1

SDG Number: 21-0105-02

Login Number: 1412**List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Xenco, Midland****List Creation: 10/15/21 12:19 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1437-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: PALMIO AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

Authorized for release by:
10/25/2021 9:37:16 PM
Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com
Designee for
Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Laboratory Job ID: 890-1437-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Eurofins Xenco, Carlsbad

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Job ID: 890-1437-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1437-1****Receipt**

The samples were received on 10/14/2021 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9958 and 880-9960 and analytical batch 880-10201 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-9760 and analytical batch 880-10157 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: An incorrect volume of spiking solution was inadvertently added to the laboratory control sample (LCS), matrix spike (MS), AND/OR matrix spike duplicate (MSD) associated with preparation batch 880-10447 and analytical batch 880-10433. Percent recoveries are based on the amount spiked.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 880-10447 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1150

Lab Sample ID: 890-1437-1

Date Collected: 10/14/21 12:10

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199	mg/Kg		10/20/21 11:08	10/22/21 18:38	1
Toluene	<0.00199	U F1 F2	0.00199	mg/Kg		10/20/21 11:08	10/22/21 18:38	1
Ethylbenzene	<0.00199	U F1 F2	0.00199	mg/Kg		10/20/21 11:08	10/22/21 18:38	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398	mg/Kg		10/20/21 11:08	10/22/21 18:38	1
o-Xylene	<0.00199	U F1 F2	0.00199	mg/Kg		10/20/21 11:08	10/22/21 18:38	1
Xylenes, Total	<0.00398	U F1 F2	0.00398	mg/Kg		10/20/21 11:08	10/22/21 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	10/20/21 11:08	10/22/21 18:38	1
1,4-Difluorobenzene (Surr)	109		70 - 130	10/20/21 11:08	10/22/21 18:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 14:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 14:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	10/22/21 11:51	10/22/21 14:44	1
o-Terphenyl	137	S1+	70 - 130	10/22/21 11:51	10/22/21 14:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		5.00	mg/Kg			10/22/21 09:50	1

Client Sample ID: C-1151

Lab Sample ID: 890-1437-2

Date Collected: 10/14/21 12:11

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 18:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 18:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 18:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 11:08	10/22/21 18:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 18:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 11:08	10/22/21 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	10/20/21 11:08	10/22/21 18:59	1
1,4-Difluorobenzene (Surr)	89		70 - 130	10/20/21 11:08	10/22/21 18:59	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1151

Lab Sample ID: 890-1437-2

Date Collected: 10/14/21 12:11

Matrix: Solid

Date Received: 10/14/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 16:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 16:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 16:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/22/21 11:51	10/22/21 16:18	1
o-Terphenyl	124		70 - 130			10/22/21 11:51	10/22/21 16:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.01	mg/Kg			10/22/21 09:58	1

Client Sample ID: C-1152

Lab Sample ID: 890-1437-3

Date Collected: 10/14/21 12:12

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/20/21 11:08	10/22/21 19:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/20/21 11:08	10/22/21 19:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/20/21 11:08	10/22/21 19:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/20/21 11:08	10/22/21 19:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/20/21 11:08	10/22/21 19:19	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/20/21 11:08	10/22/21 19:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			10/20/21 11:08	10/22/21 19:19	1
1,4-Difluorobenzene (Surr)	125		70 - 130			10/20/21 11:08	10/22/21 19:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 16:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 16:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1152

Lab Sample ID: 890-1437-3

Date Collected: 10/14/21 12:12

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/22/21 11:51	10/22/21 16:39	1
o-Terphenyl	123		70 - 130			10/22/21 11:51	10/22/21 16:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.5		4.97	mg/Kg			10/22/21 10:19	1

Client Sample ID: C-1153

Lab Sample ID: 890-1437-4

Date Collected: 10/14/21 12:13

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/22/21 19:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/22/21 19:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/22/21 19:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 11:08	10/22/21 19:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/22/21 19:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 11:08	10/22/21 19:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			10/20/21 11:08	10/22/21 19:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/20/21 11:08	10/22/21 19:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 16:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 16:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/22/21 11:51	10/22/21 16:59	1
o-Terphenyl	113		70 - 130			10/22/21 11:51	10/22/21 16:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.7		4.99	mg/Kg			10/22/21 10:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1154

Lab Sample ID: 890-1437-5

Date Collected: 10/14/21 12:14

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/22/21 20:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/22/21 20:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/22/21 20:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 11:08	10/22/21 20:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/22/21 20:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 11:08	10/22/21 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	10/20/21 11:08	10/22/21 20:00	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/20/21 11:08	10/22/21 20:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	10/22/21 11:51	10/22/21 17:20	1
o-Terphenyl	94		70 - 130	10/22/21 11:51	10/22/21 17:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.7		4.96	mg/Kg			10/22/21 10:48	1

Client Sample ID: C-1155

Lab Sample ID: 890-1437-6

Date Collected: 10/14/21 12:15

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:08	10/22/21 20:20	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:08	10/22/21 20:20	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:08	10/22/21 20:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/20/21 11:08	10/22/21 20:20	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:08	10/22/21 20:20	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/20/21 11:08	10/22/21 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/20/21 11:08	10/22/21 20:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/20/21 11:08	10/22/21 20:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1155

Lab Sample ID: 890-1437-6

Date Collected: 10/14/21 12:15

Matrix: Solid

Date Received: 10/14/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/22/21 11:51	10/22/21 17:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/22/21 11:51	10/22/21 17:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/22/21 11:51	10/22/21 17:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			10/22/21 11:51	10/22/21 17:40	1
o-Terphenyl	75		70 - 130			10/22/21 11:51	10/22/21 17:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	138		5.04	mg/Kg			10/22/21 10:55	1

Client Sample ID: C-1156

Lab Sample ID: 890-1437-7

Date Collected: 10/14/21 12:16

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 20:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 20:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 20:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/20/21 11:08	10/22/21 20:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 20:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/20/21 11:08	10/22/21 20:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/20/21 11:08	10/22/21 20:41	1
1,4-Difluorobenzene (Surr)	101		70 - 130			10/20/21 11:08	10/22/21 20:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 18:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 18:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1156

Lab Sample ID: 890-1437-7

Date Collected: 10/14/21 12:16

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 18:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			10/22/21 11:51	10/22/21 18:01	1
o-Terphenyl	98		70 - 130			10/22/21 11:51	10/22/21 18:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	276		4.97	mg/Kg			10/22/21 11:02	1

Client Sample ID: C-1157

Lab Sample ID: 890-1437-8

Date Collected: 10/14/21 12:17

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 21:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 21:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 21:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 11:08	10/22/21 21:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 21:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 11:08	10/22/21 21:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			10/20/21 11:08	10/22/21 21:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/20/21 11:08	10/22/21 21:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 18:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 18:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 18:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			10/22/21 11:51	10/22/21 18:21	1
o-Terphenyl	97		70 - 130			10/22/21 11:51	10/22/21 18:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		4.95	mg/Kg			10/20/21 17:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1158

Lab Sample ID: 890-1437-9

Date Collected: 10/14/21 12:18

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/22/21 21:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/22/21 21:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/22/21 21:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 11:08	10/22/21 21:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/22/21 21:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 11:08	10/22/21 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/20/21 11:08	10/22/21 21:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130	10/20/21 11:08	10/22/21 21:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 18:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 18:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	10/22/21 11:51	10/22/21 18:44	1
o-Terphenyl	102		70 - 130	10/22/21 11:51	10/22/21 18:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.8		5.04	mg/Kg			10/20/21 17:54	1

Client Sample ID: C-1159

Lab Sample ID: 890-1437-10

Date Collected: 10/14/21 12:19

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:08	10/22/21 21:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:08	10/22/21 21:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:08	10/22/21 21:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/20/21 11:08	10/22/21 21:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:08	10/22/21 21:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/20/21 11:08	10/22/21 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	10/20/21 11:08	10/22/21 21:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/20/21 11:08	10/22/21 21:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1159

Lab Sample ID: 890-1437-10

Date Collected: 10/14/21 12:19

Matrix: Solid

Date Received: 10/14/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 19:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 19:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/22/21 11:51	10/22/21 19:04	1
o-Terphenyl	111		70 - 130			10/22/21 11:51	10/22/21 19:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		4.99	mg/Kg			10/20/21 18:00	1

Client Sample ID: C-1160

Lab Sample ID: 890-1437-11

Date Collected: 10/14/21 12:20

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 23:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 23:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 23:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/20/21 11:08	10/22/21 23:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 23:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/20/21 11:08	10/22/21 23:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			10/20/21 11:08	10/22/21 23:31	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/20/21 11:08	10/22/21 23:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 19:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 19:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1160

Lab Sample ID: 890-1437-11

Date Collected: 10/14/21 12:20

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/22/21 11:51	10/22/21 19:45	1
o-Terphenyl	114		70 - 130			10/22/21 11:51	10/22/21 19:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	207		4.97	mg/Kg			10/20/21 18:07	1

Client Sample ID: C-1161

Lab Sample ID: 890-1437-12

Date Collected: 10/14/21 12:21

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 23:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 23:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 23:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/20/21 11:08	10/22/21 23:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 23:52	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/20/21 11:08	10/22/21 23:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/20/21 11:08	10/22/21 23:52	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/20/21 11:08	10/22/21 23:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 20:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 20:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 20:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			10/22/21 11:51	10/22/21 20:05	1
o-Terphenyl	139	S1+	70 - 130			10/22/21 11:51	10/22/21 20:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.7		5.05	mg/Kg			10/20/21 18:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1162

Lab Sample ID: 890-1437-13

Date Collected: 10/14/21 12:22

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:08	10/23/21 00:12	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:08	10/23/21 00:12	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:08	10/23/21 00:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/20/21 11:08	10/23/21 00:12	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:08	10/23/21 00:12	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/20/21 11:08	10/23/21 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/20/21 11:08	10/23/21 00:12	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/20/21 11:08	10/23/21 00:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 20:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 20:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	10/22/21 11:51	10/22/21 20:25	1
o-Terphenyl	143	S1+	70 - 130	10/22/21 11:51	10/22/21 20:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.5		5.00	mg/Kg			10/20/21 18:19	1

Client Sample ID: C-1163

Lab Sample ID: 890-1437-14

Date Collected: 10/14/21 12:23

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/23/21 00:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/23/21 00:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/23/21 00:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 11:08	10/23/21 00:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/23/21 00:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 11:08	10/23/21 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/20/21 11:08	10/23/21 00:32	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/20/21 11:08	10/23/21 00:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1163

Lab Sample ID: 890-1437-14

Date Collected: 10/14/21 12:23

Matrix: Solid

Date Received: 10/14/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 20:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 20:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			10/22/21 11:51	10/22/21 20:45	1
o-Terphenyl	140	S1+	70 - 130			10/22/21 11:51	10/22/21 20:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.2		5.01	mg/Kg			10/20/21 18:26	1

Client Sample ID: C-1164

Lab Sample ID: 890-1437-15

Date Collected: 10/14/21 12:24

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 00:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 00:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 00:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 11:08	10/23/21 00:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 00:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 11:08	10/23/21 00:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			10/20/21 11:08	10/23/21 00:53	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/20/21 11:08	10/23/21 00:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 21:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 21:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1164

Lab Sample ID: 890-1437-15

Date Collected: 10/14/21 12:24

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 21:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/22/21 11:51	10/22/21 21:06	1
o-Terphenyl	126		70 - 130			10/22/21 11:51	10/22/21 21:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.8		4.99	mg/Kg			10/20/21 18:51	1

Client Sample ID: C-1165

Lab Sample ID: 890-1437-16

Date Collected: 10/14/21 12:25

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/23/21 01:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/23/21 01:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/23/21 01:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 11:08	10/23/21 01:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:08	10/23/21 01:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 11:08	10/23/21 01:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/20/21 11:08	10/23/21 01:13	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/20/21 11:08	10/23/21 01:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 21:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 21:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 21:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/22/21 11:51	10/22/21 21:26	1
o-Terphenyl	110		70 - 130			10/22/21 11:51	10/22/21 21:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		4.96	mg/Kg			10/20/21 19:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1166

Lab Sample ID: 890-1437-17

Date Collected: 10/14/21 12:26

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 01:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 01:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 01:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/20/21 11:08	10/23/21 01:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 01:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/20/21 11:08	10/23/21 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	10/20/21 11:08	10/23/21 01:34	1
1,4-Difluorobenzene (Surr)	115		70 - 130	10/20/21 11:08	10/23/21 01:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 21:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 21:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	10/22/21 11:51	10/22/21 21:46	1
o-Terphenyl	107		70 - 130	10/22/21 11:51	10/22/21 21:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.0		5.04	mg/Kg			10/20/21 19:16	1

Client Sample ID: C-1167

Lab Sample ID: 890-1437-18

Date Collected: 10/14/21 12:27

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:08	10/23/21 01:54	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:08	10/23/21 01:54	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:08	10/23/21 01:54	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/20/21 11:08	10/23/21 01:54	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:08	10/23/21 01:54	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/20/21 11:08	10/23/21 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/20/21 11:08	10/23/21 01:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/20/21 11:08	10/23/21 01:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1167

Lab Sample ID: 890-1437-18

Date Collected: 10/14/21 12:27

Matrix: Solid

Date Received: 10/14/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 22:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 22:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 11:51	10/22/21 22:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/22/21 11:51	10/22/21 22:06	1
o-Terphenyl	110		70 - 130			10/22/21 11:51	10/22/21 22:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		4.97	mg/Kg			10/20/21 19:22	1

Client Sample ID: C-1168

Lab Sample ID: 890-1437-19

Date Collected: 10/14/21 12:28

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 02:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 02:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 02:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/20/21 11:08	10/23/21 02:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 02:14	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/20/21 11:08	10/23/21 02:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			10/20/21 11:08	10/23/21 02:14	1
1,4-Difluorobenzene (Surr)	98		70 - 130			10/20/21 11:08	10/23/21 02:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/22/21 11:51	10/22/21 22:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/22/21 11:51	10/22/21 22:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1168

Lab Sample ID: 890-1437-19

Date Collected: 10/14/21 12:28

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/22/21 11:51	10/22/21 22:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			10/22/21 11:51	10/22/21 22:26	1
o-Terphenyl	86		70 - 130			10/22/21 11:51	10/22/21 22:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.6		5.04	mg/Kg			10/20/21 19:29	1

Client Sample ID: C-1169

Lab Sample ID: 890-1437-20

Date Collected: 10/14/21 12:29

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 02:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 02:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 02:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/20/21 11:08	10/23/21 02:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/23/21 02:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/20/21 11:08	10/23/21 02:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			10/20/21 11:08	10/23/21 02:35	1
1,4-Difluorobenzene (Surr)	84		70 - 130			10/20/21 11:08	10/23/21 02:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.5		49.8	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/22/21 11:51	10/23/21 08:07	1
Diesel Range Organics (Over C10-C28)	98.5		49.8	mg/Kg		10/22/21 11:51	10/23/21 08:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/22/21 11:51	10/23/21 08:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/22/21 11:51	10/23/21 08:07	1
o-Terphenyl	111		70 - 130			10/22/21 11:51	10/23/21 08:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.9		5.03	mg/Kg			10/20/21 19:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1170

Lab Sample ID: 890-1437-21

Date Collected: 10/14/21 12:30

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1 F2	0.00200	mg/Kg		10/20/21 11:13	10/23/21 06:11	1
Toluene	<0.00200	U F1 F2	0.00200	mg/Kg		10/20/21 11:13	10/23/21 06:11	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/Kg		10/20/21 11:13	10/23/21 06:11	1
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.00399	mg/Kg		10/20/21 11:13	10/23/21 06:11	1
o-Xylene	<0.00200	U F1 F2	0.00200	mg/Kg		10/20/21 11:13	10/23/21 06:11	1
Xylenes, Total	<0.00399	U F1 F2	0.00399	mg/Kg		10/20/21 11:13	10/23/21 06:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/20/21 11:13	10/23/21 06:11	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/20/21 11:13	10/23/21 06:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 12:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 12:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	10/22/21 12:49	10/23/21 12:35	1
o-Terphenyl	108		70 - 130	10/22/21 12:49	10/23/21 12:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.9		4.97	mg/Kg			10/20/21 19:41	1

Client Sample ID: C-1171

Lab Sample ID: 890-1437-22

Date Collected: 10/14/21 12:31

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 06:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 06:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 06:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/20/21 11:13	10/23/21 06:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 06:32	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/20/21 11:13	10/23/21 06:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	10/20/21 11:13	10/23/21 06:32	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/20/21 11:13	10/23/21 06:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1171

Lab Sample ID: 890-1437-22

Date Collected: 10/14/21 12:31

Matrix: Solid

Date Received: 10/14/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 15:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 15:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 15:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/22/21 12:49	10/23/21 15:46	1
o-Terphenyl	103		70 - 130			10/22/21 12:49	10/23/21 15:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	264		25.0	mg/Kg			10/25/21 15:56	5

Client Sample ID: C-1172

Lab Sample ID: 890-1437-23

Date Collected: 10/14/21 12:32

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 06:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 06:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 06:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 11:13	10/23/21 06:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 06:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 11:13	10/23/21 06:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			10/20/21 11:13	10/23/21 06:52	1
1,4-Difluorobenzene (Surr)	71		70 - 130			10/20/21 11:13	10/23/21 06:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 13:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1172

Lab Sample ID: 890-1437-23

Date Collected: 10/14/21 12:32

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			10/22/21 12:49	10/23/21 13:39	1
o-Terphenyl	96		70 - 130			10/22/21 12:49	10/23/21 13:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		4.99	mg/Kg			10/20/21 19:48	1

Client Sample ID: C-1173

Lab Sample ID: 890-1437-24

Date Collected: 10/14/21 12:33

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 07:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 07:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 07:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 11:13	10/23/21 07:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 07:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 11:13	10/23/21 07:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			10/20/21 11:13	10/23/21 07:12	1
1,4-Difluorobenzene (Surr)	130		70 - 130			10/20/21 11:13	10/23/21 07:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 14:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 14:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 14:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			10/22/21 12:49	10/23/21 14:00	1
o-Terphenyl	103		70 - 130			10/22/21 12:49	10/23/21 14:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370		4.95	mg/Kg			10/22/21 15:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1174

Lab Sample ID: 890-1437-25

Date Collected: 10/14/21 12:34

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 07:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 07:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 07:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 11:13	10/23/21 07:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 07:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 11:13	10/23/21 07:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/20/21 11:13	10/23/21 07:33	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/20/21 11:13	10/23/21 07:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/22/21 12:49	10/23/21 14:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/22/21 12:49	10/23/21 14:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/22/21 12:49	10/23/21 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	10/22/21 12:49	10/23/21 14:22	1
o-Terphenyl	108		70 - 130	10/22/21 12:49	10/23/21 14:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	670		5.03	mg/Kg			10/22/21 15:25	1

Client Sample ID: C-1175

Lab Sample ID: 890-1437-26

Date Collected: 10/14/21 12:35

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 07:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 07:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 07:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/20/21 11:13	10/23/21 07:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 07:53	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/20/21 11:13	10/23/21 07:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/20/21 11:13	10/23/21 07:53	1
1,4-Difluorobenzene (Surr)	80		70 - 130	10/20/21 11:13	10/23/21 07:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1175

Lab Sample ID: 890-1437-26

Date Collected: 10/14/21 12:35

Matrix: Solid

Date Received: 10/14/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 14:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 14:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 14:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/22/21 12:49	10/23/21 14:43	1
o-Terphenyl	97		70 - 130			10/22/21 12:49	10/23/21 14:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		25.2	mg/Kg			10/23/21 20:47	5

Client Sample ID: C-1176

Lab Sample ID: 890-1437-27

Date Collected: 10/14/21 12:36

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 08:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 08:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 08:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/20/21 11:13	10/23/21 08:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 08:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/20/21 11:13	10/23/21 08:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/20/21 11:13	10/23/21 08:14	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/20/21 11:13	10/23/21 08:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/22/21 12:49	10/23/21 15:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/22/21 12:49	10/23/21 15:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1176

Lab Sample ID: 890-1437-27

Date Collected: 10/14/21 12:36

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/22/21 12:49	10/23/21 15:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			10/22/21 12:49	10/23/21 15:04	1
o-Terphenyl	108		70 - 130			10/22/21 12:49	10/23/21 15:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193		5.01	mg/Kg			10/22/21 15:39	1

Client Sample ID: C-1177

Lab Sample ID: 890-1437-28

Date Collected: 10/14/21 12:37

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:13	10/23/21 08:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:13	10/23/21 08:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:13	10/23/21 08:34	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/20/21 11:13	10/23/21 08:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:13	10/23/21 08:34	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/20/21 11:13	10/23/21 08:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130			10/20/21 11:13	10/23/21 08:34	1
1,4-Difluorobenzene (Surr)	82		70 - 130			10/20/21 11:13	10/23/21 08:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 15:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 15:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 15:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	215	S1+	70 - 130			10/22/21 12:49	10/23/21 15:25	1
o-Terphenyl	233	S1+	70 - 130			10/22/21 12:49	10/23/21 15:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	777		4.95	mg/Kg			10/22/21 15:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1178

Lab Sample ID: 890-1437-29

Date Collected: 10/14/21 12:38

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 08:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 08:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 08:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 11:13	10/23/21 08:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 08:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 11:13	10/23/21 08:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	10/20/21 11:13	10/23/21 08:54	1
1,4-Difluorobenzene (Surr)	83		70 - 130	10/20/21 11:13	10/23/21 08:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 16:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 16:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	199	S1+	70 - 130	10/22/21 12:49	10/23/21 16:07	1
o-Terphenyl	211	S1+	70 - 130	10/22/21 12:49	10/23/21 16:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		5.04	mg/Kg			10/22/21 16:07	1

Client Sample ID: C-1179

Lab Sample ID: 890-1437-30

Date Collected: 10/14/21 12:39

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 09:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 09:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 09:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 11:13	10/23/21 09:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 09:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 11:13	10/23/21 09:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/20/21 11:13	10/23/21 09:15	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/20/21 11:13	10/23/21 09:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1179

Lab Sample ID: 890-1437-30

Date Collected: 10/14/21 12:39

Matrix: Solid

Date Received: 10/14/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 16:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 16:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 16:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	204	S1+	70 - 130			10/22/21 12:49	10/23/21 16:29	1
o-Terphenyl	222	S1+	70 - 130			10/22/21 12:49	10/23/21 16:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	411		4.99	mg/Kg			10/22/21 16:14	1

Client Sample ID: C-1180

Lab Sample ID: 890-1437-31

Date Collected: 10/14/21 12:40

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 11:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 11:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 11:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/20/21 11:13	10/23/21 11:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 11:04	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/20/21 11:13	10/23/21 11:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			10/20/21 11:13	10/23/21 11:04	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/20/21 11:13	10/23/21 11:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 17:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 17:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1180

Lab Sample ID: 890-1437-31

Date Collected: 10/14/21 12:40

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 17:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	227	S1+	70 - 130			10/22/21 12:49	10/23/21 17:12	1
o-Terphenyl	253	S1+	70 - 130			10/22/21 12:49	10/23/21 17:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221		4.97	mg/Kg			10/22/21 16:20	1

Client Sample ID: C-1181

Lab Sample ID: 890-1437-32

Date Collected: 10/14/21 12:41

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 11:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 11:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 11:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/20/21 11:13	10/23/21 11:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 11:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/20/21 11:13	10/23/21 11:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			10/20/21 11:13	10/23/21 11:24	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/20/21 11:13	10/23/21 11:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 17:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 17:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 17:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	214	S1+	70 - 130			10/22/21 12:49	10/23/21 17:33	1
o-Terphenyl	234	S1+	70 - 130			10/22/21 12:49	10/23/21 17:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	633		5.05	mg/Kg			10/22/21 16:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1182

Lab Sample ID: 890-1437-33

Date Collected: 10/14/21 12:42

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 11:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 11:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 11:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 11:13	10/23/21 11:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 11:13	10/23/21 11:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 11:13	10/23/21 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	10/20/21 11:13	10/23/21 11:45	1
1,4-Difluorobenzene (Surr)	112		70 - 130	10/20/21 11:13	10/23/21 11:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		10/22/21 12:49	10/23/21 17:54	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		10/22/21 12:49	10/23/21 17:54	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		10/22/21 12:49	10/23/21 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	53	S1-	70 - 130	10/22/21 12:49	10/23/21 17:54	1
o-Terphenyl	57	S1-	70 - 130	10/22/21 12:49	10/23/21 17:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	573		5.00	mg/Kg			10/22/21 16:34	1

Client Sample ID: C-1183

Lab Sample ID: 890-1437-34

Date Collected: 10/14/21 12:43

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/20/21 11:13	10/23/21 12:05	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/20/21 11:13	10/23/21 12:05	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/20/21 11:13	10/23/21 12:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/20/21 11:13	10/23/21 12:05	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/20/21 11:13	10/23/21 12:05	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/20/21 11:13	10/23/21 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	10/20/21 11:13	10/23/21 12:05	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/20/21 11:13	10/23/21 12:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1183

Lab Sample ID: 890-1437-34

Date Collected: 10/14/21 12:43

Matrix: Solid

Date Received: 10/14/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 18:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 18:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/22/21 12:49	10/23/21 18:15	1
o-Terphenyl	112		70 - 130			10/22/21 12:49	10/23/21 18:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		5.01	mg/Kg			10/22/21 16:41	1

Client Sample ID: C-1184

Lab Sample ID: 890-1437-35

Date Collected: 10/14/21 12:44

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:13	10/23/21 12:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:13	10/23/21 12:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:13	10/23/21 12:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/20/21 11:13	10/23/21 12:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:13	10/23/21 12:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/20/21 11:13	10/23/21 12:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			10/20/21 11:13	10/23/21 12:26	1
1,4-Difluorobenzene (Surr)	111		70 - 130			10/20/21 11:13	10/23/21 12:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 18:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1184

Lab Sample ID: 890-1437-35

Date Collected: 10/14/21 12:44

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/22/21 12:49	10/23/21 18:36	1
o-Terphenyl	118		70 - 130			10/22/21 12:49	10/23/21 18:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.3		4.97	mg/Kg			10/22/21 17:02	1

Client Sample ID: C-1185

Lab Sample ID: 890-1437-36

Date Collected: 10/14/21 12:45

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 12:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 12:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 12:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 11:13	10/23/21 12:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 12:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 11:13	10/23/21 12:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			10/20/21 11:13	10/23/21 12:46	1
1,4-Difluorobenzene (Surr)	111		70 - 130			10/20/21 11:13	10/23/21 12:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/22/21 12:49	10/23/21 18:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/22/21 12:49	10/23/21 18:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/22/21 12:49	10/23/21 18:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/22/21 12:49	10/23/21 18:58	1
o-Terphenyl	122		70 - 130			10/22/21 12:49	10/23/21 18:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		4.99	mg/Kg			10/22/21 17:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1186

Lab Sample ID: 890-1437-37

Date Collected: 10/14/21 12:46

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:13	10/23/21 13:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:13	10/23/21 13:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:13	10/23/21 13:06	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/20/21 11:13	10/23/21 13:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/20/21 11:13	10/23/21 13:06	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/20/21 11:13	10/23/21 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/20/21 11:13	10/23/21 13:06	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/20/21 11:13	10/23/21 13:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 19:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 19:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	10/22/21 12:49	10/23/21 19:19	1
o-Terphenyl	115		70 - 130	10/22/21 12:49	10/23/21 19:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	795		4.96	mg/Kg			10/22/21 17:30	1

Client Sample ID: C-1187

Lab Sample ID: 890-1437-38

Date Collected: 10/14/21 12:47

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 13:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 13:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 13:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/20/21 11:13	10/23/21 13:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 13:27	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/20/21 11:13	10/23/21 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	10/20/21 11:13	10/23/21 13:27	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/20/21 11:13	10/23/21 13:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1187

Lab Sample ID: 890-1437-38

Date Collected: 10/14/21 12:47

Matrix: Solid

Date Received: 10/14/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 19:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 19:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 19:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/22/21 12:49	10/23/21 19:41	1
o-Terphenyl	114		70 - 130			10/22/21 12:49	10/23/21 19:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	417		5.04	mg/Kg			10/22/21 17:37	1

Client Sample ID: C-1188

Lab Sample ID: 890-1437-39

Date Collected: 10/14/21 12:48

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:13	10/23/21 13:47	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:13	10/23/21 13:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:13	10/23/21 13:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/20/21 11:13	10/23/21 13:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:13	10/23/21 13:47	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/20/21 11:13	10/23/21 13:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			10/20/21 11:13	10/23/21 13:47	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/20/21 11:13	10/23/21 13:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 20:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 20:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1188

Lab Sample ID: 890-1437-39

Date Collected: 10/14/21 12:48

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 12:49	10/23/21 20:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/22/21 12:49	10/23/21 20:03	1
o-Terphenyl	113		70 - 130			10/22/21 12:49	10/23/21 20:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	980		4.97	mg/Kg			10/22/21 17:44	1

Client Sample ID: C-1189

Lab Sample ID: 890-1437-40

Date Collected: 10/14/21 12:49

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:13	10/23/21 14:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:13	10/23/21 14:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:13	10/23/21 14:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/20/21 11:13	10/23/21 14:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/20/21 11:13	10/23/21 14:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/20/21 11:13	10/23/21 14:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			10/20/21 11:13	10/23/21 14:43	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/20/21 11:13	10/23/21 14:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/22/21 12:49	10/23/21 20:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/22/21 12:49	10/23/21 20:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/22/21 12:49	10/23/21 20:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/22/21 12:49	10/23/21 20:24	1
o-Terphenyl	121		70 - 130			10/22/21 12:49	10/23/21 20:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3130		25.2	mg/Kg			10/22/21 17:50	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1190

Lab Sample ID: 890-1437-41

Date Collected: 10/14/21 12:50

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/21/21 13:00	10/22/21 09:35	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/21/21 13:00	10/22/21 09:35	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/21/21 13:00	10/22/21 09:35	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/21/21 13:00	10/22/21 09:35	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/21/21 13:00	10/22/21 09:35	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/21/21 13:00	10/22/21 09:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/21/21 13:00	10/22/21 09:35	1
1,4-Difluorobenzene (Surr)	111		70 - 130	10/21/21 13:00	10/22/21 09:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	49.9	mg/Kg		10/22/21 12:52	10/23/21 22:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg		10/22/21 12:52	10/23/21 22:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 12:52	10/23/21 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	10/22/21 12:52	10/23/21 22:10	1
o-Terphenyl	122		70 - 130	10/22/21 12:52	10/23/21 22:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	467		5.03	mg/Kg			10/22/21 17:57	1

Client Sample ID: C-1191

Lab Sample ID: 890-1437-42

Date Collected: 10/14/21 12:51

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/21/21 13:00	10/22/21 09:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/21/21 13:00	10/22/21 09:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/21/21 13:00	10/22/21 09:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/21/21 13:00	10/22/21 09:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/21/21 13:00	10/22/21 09:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/21/21 13:00	10/22/21 09:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/21/21 13:00	10/22/21 09:55	1
1,4-Difluorobenzene (Surr)	113		70 - 130	10/21/21 13:00	10/22/21 09:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1191

Lab Sample ID: 890-1437-42

Date Collected: 10/14/21 12:51

Matrix: Solid

Date Received: 10/14/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/22/21 12:52	10/23/21 23:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/22/21 12:52	10/23/21 23:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/22/21 12:52	10/23/21 23:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			10/22/21 12:52	10/23/21 23:10	1
o-Terphenyl	124		70 - 130			10/22/21 12:52	10/23/21 23:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	291		4.97	mg/Kg			10/22/21 18:04	1

Client Sample ID: C-1192

Lab Sample ID: 890-1437-43

Date Collected: 10/14/21 12:52

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 17:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 17:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 17:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/20/21 14:16	10/24/21 17:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 17:05	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/20/21 14:16	10/24/21 17:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			10/20/21 14:16	10/24/21 17:05	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/20/21 14:16	10/24/21 17:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 12:52	10/23/21 23:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 12:52	10/23/21 23:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1192

Lab Sample ID: 890-1437-43

Date Collected: 10/14/21 12:52

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 12:52	10/23/21 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/22/21 12:52	10/23/21 23:30	1
o-Terphenyl	127		70 - 130			10/22/21 12:52	10/23/21 23:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.6		4.99	mg/Kg			10/22/21 18:11	1

Client Sample ID: C-1193

Lab Sample ID: 890-1437-44

Date Collected: 10/14/21 12:53

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/20/21 14:16	10/24/21 17:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/20/21 14:16	10/24/21 17:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/20/21 14:16	10/24/21 17:26	1
m-Xylene & p-Xylene	0.00810		0.00403	mg/Kg		10/20/21 14:16	10/24/21 17:26	1
o-Xylene	0.00219		0.00202	mg/Kg		10/20/21 14:16	10/24/21 17:26	1
Xylenes, Total	0.0103		0.00403	mg/Kg		10/20/21 14:16	10/24/21 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/20/21 14:16	10/24/21 17:26	1
1,4-Difluorobenzene (Surr)	111		70 - 130			10/20/21 14:16	10/24/21 17:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0103		0.00403	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/22/21 12:52	10/24/21 00:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/22/21 12:52	10/24/21 00:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/22/21 12:52	10/24/21 00:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			10/22/21 12:52	10/24/21 00:09	1
o-Terphenyl	110		70 - 130			10/22/21 12:52	10/24/21 00:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	402		5.04	mg/Kg			10/22/21 13:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1194

Lab Sample ID: 890-1437-45

Date Collected: 10/14/21 12:54

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 17:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 17:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 17:47	1
m-Xylene & p-Xylene	0.00483		0.00399	mg/Kg		10/20/21 14:16	10/24/21 17:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 17:47	1
Xylenes, Total	0.00483		0.00399	mg/Kg		10/20/21 14:16	10/24/21 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	10/20/21 14:16	10/24/21 17:47	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/20/21 14:16	10/24/21 17:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00483		0.00399	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 14:51	10/22/21 10:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 14:51	10/22/21 10:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 14:51	10/22/21 10:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/21/21 14:51	10/22/21 10:01	1
o-Terphenyl	120		70 - 130			10/21/21 14:51	10/22/21 10:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	232		5.03	mg/Kg			10/22/21 13:49	1

Client Sample ID: C-1195

Lab Sample ID: 890-1437-46

Date Collected: 10/14/21 00:00

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/20/21 14:16	10/24/21 18:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/20/21 14:16	10/24/21 18:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/20/21 14:16	10/24/21 18:08	1
m-Xylene & p-Xylene	0.0530		0.00402	mg/Kg		10/20/21 14:16	10/24/21 18:08	1
o-Xylene	0.0146		0.00201	mg/Kg		10/20/21 14:16	10/24/21 18:08	1
Xylenes, Total	0.0676		0.00402	mg/Kg		10/20/21 14:16	10/24/21 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	10/20/21 14:16	10/24/21 18:08	1
1,4-Difluorobenzene (Surr)	119		70 - 130	10/20/21 14:16	10/24/21 18:08	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1195

Lab Sample ID: 890-1437-46

Date Collected: 10/14/21 00:00

Matrix: Solid

Date Received: 10/14/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0676		0.00402	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/21/21 14:51	10/22/21 10:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/21/21 14:51	10/22/21 10:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/21/21 14:51	10/22/21 10:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/21/21 14:51	10/22/21 10:22	1
o-Terphenyl	120		70 - 130			10/21/21 14:51	10/22/21 10:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	206		4.97	mg/Kg			10/22/21 13:55	1

Client Sample ID: C-1196

Lab Sample ID: 890-1437-47

Date Collected: 10/14/21 00:00

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 14:16	10/24/21 18:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 14:16	10/24/21 18:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 14:16	10/24/21 18:28	1
m-Xylene & p-Xylene	0.0158		0.00398	mg/Kg		10/20/21 14:16	10/24/21 18:28	1
o-Xylene	0.00440		0.00199	mg/Kg		10/20/21 14:16	10/24/21 18:28	1
Xylenes, Total	0.0202		0.00398	mg/Kg		10/20/21 14:16	10/24/21 18:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/20/21 14:16	10/24/21 18:28	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130			10/20/21 14:16	10/24/21 18:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0202		0.00398	mg/Kg			10/25/21 19:05	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/25/21 19:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 14:51	10/22/21 10:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/21 14:51	10/22/21 10:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1196

Lab Sample ID: 890-1437-47

Date Collected: 10/14/21 00:00

Matrix: Solid

Date Received: 10/14/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 14:51	10/22/21 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	10/21/21 14:51	10/22/21 10:43	1
o-Terphenyl	124		70 - 130	10/21/21 14:51	10/22/21 10:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	246		4.99	mg/Kg			10/22/21 14:02	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-1437-1	C-1150	106	109
890-1437-1 MS	C-1150	64 S1-	80
890-1437-1 MSD	C-1150	36 S1-	28 S1-
890-1437-2	C-1151	89	89
890-1437-3	C-1152	82	125
890-1437-4	C-1153	77	93
890-1437-5	C-1154	82	93
890-1437-6	C-1155	112	102
890-1437-7	C-1156	96	101
890-1437-8	C-1157	91	99
890-1437-9	C-1158	97	95
890-1437-10	C-1159	104	105
890-1437-11	C-1160	100	102
890-1437-12	C-1161	95	105
890-1437-13	C-1162	96	100
890-1437-14	C-1163	98	104
890-1437-15	C-1164	94	105
890-1437-16	C-1165	99	102
890-1437-17	C-1166	118	115
890-1437-18	C-1167	90	102
890-1437-19	C-1168	91	98
890-1437-20	C-1169	80	84
890-1437-21	C-1170	93	99
890-1437-21 MS	C-1170	98	120
890-1437-21 MSD	C-1170	91	99
890-1437-22	C-1171	70	79
890-1437-23	C-1172	132 S1+	71
890-1437-24	C-1173	102	130
890-1437-25	C-1174	95	104
890-1437-26	C-1175	100	80
890-1437-27	C-1176	98	103
890-1437-28	C-1177	73	82
890-1437-29	C-1178	94	83
890-1437-30	C-1179	92	99
890-1437-31	C-1180	94	102
890-1437-32	C-1181	101	106
890-1437-33	C-1182	77	112
890-1437-34	C-1183	85	107
890-1437-35	C-1184	97	111
890-1437-36	C-1185	80	111
890-1437-37	C-1186	97	102
890-1437-38	C-1187	87	104
890-1437-39	C-1188	91	104
890-1437-40	C-1189	97	104
890-1437-41	C-1190	96	111
890-1437-42	C-1191	92	113
890-1437-43	C-1192	91	102
890-1437-44	C-1193	92	111
890-1437-45	C-1194	87	108

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1437-1

Project/Site: PALMIO AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1437-46	C-1195	121	119
890-1437-47	C-1196	96	133 S1+
LCS 880-10011/1-A	Lab Control Sample	90	105
LCS 880-10082/1-A	Lab Control Sample	102	96
LCS 880-9958/1-A	Lab Control Sample	83	97
LCS 880-9960/1-A	Lab Control Sample	105	99
LCSD 880-10011/2-A	Lab Control Sample Dup	93	101
LCSD 880-10082/2-A	Lab Control Sample Dup	102	97
LCSD 880-9958/2-A	Lab Control Sample Dup	87	103
LCSD 880-9960/2-A	Lab Control Sample Dup	83	94
MB 880-10009/5-A	Method Blank	119	99
MB 880-10082/5-A	Method Blank	111	98
MB 880-9954/5-A	Method Blank	118	103
MB 880-9958/5-A	Method Blank	103	107
MB 880-9960/5-A	Method Blank	99	106
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1437-1	C-1150	124	137 S1+
890-1437-1 MS	C-1150	151 S1+	159 S1+
890-1437-1 MSD	C-1150	151 S1+	161 S1+
890-1437-2	C-1151	113	124
890-1437-3	C-1152	110	123
890-1437-4	C-1153	108	113
890-1437-5	C-1154	97	94
890-1437-6	C-1155	84	75
890-1437-7	C-1156	94	98
890-1437-8	C-1157	95	97
890-1437-9	C-1158	95	102
890-1437-10	C-1159	107	111
890-1437-11	C-1160	109	114
890-1437-12	C-1161	124	139 S1+
890-1437-13	C-1162	128	143 S1+
890-1437-14	C-1163	120	140 S1+
890-1437-15	C-1164	110	126
890-1437-16	C-1165	104	110
890-1437-17	C-1166	103	107
890-1437-18	C-1167	104	110
890-1437-19	C-1168	90	86
890-1437-20	C-1169	107	111
890-1437-21	C-1170	101	108
890-1437-21 MS	C-1170	107	109
890-1437-21 MSD	C-1170	105	103

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1437-1

Project/Site: PALMIO AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1437-22	C-1171	98	103
890-1437-23	C-1172	92	96
890-1437-24	C-1173	99	103
890-1437-25	C-1174	99	108
890-1437-26	C-1175	93	97
890-1437-27	C-1176	100	108
890-1437-28	C-1177	215 S1+	233 S1+
890-1437-29	C-1178	199 S1+	211 S1+
890-1437-30	C-1179	204 S1+	222 S1+
890-1437-31	C-1180	227 S1+	253 S1+
890-1437-32	C-1181	214 S1+	234 S1+
890-1437-33	C-1182	53 S1-	57 S1-
890-1437-34	C-1183	106	112
890-1437-35	C-1184	108	118
890-1437-36	C-1185	110	122
890-1437-37	C-1186	106	115
890-1437-38	C-1187	105	114
890-1437-39	C-1188	104	113
890-1437-40	C-1189	108	121
890-1437-41	C-1190	101	122
890-1437-41 MS	C-1190	97	118
890-1437-41 MSD	C-1190	95	117
890-1437-42	C-1191	100	124
890-1437-43	C-1192	104	127
890-1437-44	C-1193	96	110
890-1437-45	C-1194	107	120
890-1437-46	C-1195	108	120
890-1437-47	C-1196	113	124
LCS 880-10136/2-A	Lab Control Sample	94	89
LCS 880-10225/2-A	Lab Control Sample	95	90
LCS 880-10254/2-A	Lab Control Sample	100	104
LCS 880-10256/2-A	Lab Control Sample	92	98
LCSD 880-10136/3-A	Lab Control Sample Dup	95	92
LCSD 880-10225/3-A	Lab Control Sample Dup	99	100
LCSD 880-10254/3-A	Lab Control Sample Dup	91	95
LCSD 880-10256/3-A	Lab Control Sample Dup	96	94
MB 880-10136/1-A	Method Blank	113	123
MB 880-10225/1-A	Method Blank	123	134 S1+
MB 880-10254/1-A	Method Blank	95	102
MB 880-10256/1-A	Method Blank	105	127

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10009/5-A

Matrix: Solid

Analysis Batch: 10332

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10009

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 14:10	10/24/21 04:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	10/20/21 14:10	10/24/21 04:18	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/20/21 14:10	10/24/21 04:18	1

Lab Sample ID: LCS 880-10011/1-A

Matrix: Solid

Analysis Batch: 10332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1028		mg/Kg		103	70 - 130
Toluene	0.100	0.07866		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.07910		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1485		mg/Kg		74	70 - 130
o-Xylene	0.100	0.07658		mg/Kg		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-10011/2-A

Matrix: Solid

Analysis Batch: 10332

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08414		mg/Kg		84	70 - 130	20	35
Toluene	0.100	0.07026		mg/Kg		70	70 - 130	11	35
Ethylbenzene	0.100	0.07046		mg/Kg		70	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1400		mg/Kg		70	70 - 130	6	35
o-Xylene	0.100	0.07068		mg/Kg		71	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-10082/5-A

Matrix: Solid

Analysis Batch: 10086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10082

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/21/21 13:00	10/22/21 07:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/21/21 13:00	10/22/21 07:08	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-10082/5-A

Matrix: Solid

Analysis Batch: 10086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10082

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/21/21 13:00	10/22/21 07:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/21/21 13:00	10/22/21 07:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/21/21 13:00	10/22/21 07:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/21/21 13:00	10/22/21 07:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	10/21/21 13:00	10/22/21 07:08	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/21/21 13:00	10/22/21 07:08	1

Lab Sample ID: LCS 880-10082/1-A

Matrix: Solid

Analysis Batch: 10086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08621		mg/Kg		86	70 - 130
Toluene	0.100	0.08303		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08803		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1716		mg/Kg		86	70 - 130
o-Xylene	0.100	0.08940		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-10082/2-A

Matrix: Solid

Analysis Batch: 10086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10082

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08243		mg/Kg		82	70 - 130	4	35
Toluene	0.100	0.08181		mg/Kg		82	70 - 130	1	35
Ethylbenzene	0.100	0.08657		mg/Kg		87	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1690		mg/Kg		84	70 - 130	2	35
o-Xylene	0.100	0.08784		mg/Kg		88	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-9954/5-A

Matrix: Solid

Analysis Batch: 10086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9954

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 10:54	10/21/21 20:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 10:54	10/21/21 20:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 10:54	10/21/21 20:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 10:54	10/21/21 20:12	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-9954/5-A

Matrix: Solid

Analysis Batch: 10086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9954

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 10:54	10/21/21 20:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 10:54	10/21/21 20:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			10/20/21 10:54	10/21/21 20:12	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/20/21 10:54	10/21/21 20:12	1

Lab Sample ID: MB 880-9958/5-A

Matrix: Solid

Analysis Batch: 10201

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9958

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 18:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 18:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 18:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 11:08	10/22/21 18:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:08	10/22/21 18:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 11:08	10/22/21 18:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			10/20/21 11:08	10/22/21 18:10	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/20/21 11:08	10/22/21 18:10	1

Lab Sample ID: LCS 880-9958/1-A

Matrix: Solid

Analysis Batch: 10201

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1071		mg/Kg		107	70 - 130
Toluene	0.100	0.1162		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1240		mg/Kg		124	70 - 130
m-Xylene & p-Xylene	0.200	0.2325		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1210		mg/Kg		121	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	83		70 - 130				
1,4-Difluorobenzene (Surr)	97		70 - 130				

Lab Sample ID: LCSD 880-9958/2-A

Matrix: Solid

Analysis Batch: 10201

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9958

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1166		mg/Kg		117	70 - 130	8	35
Toluene	0.100	0.1215		mg/Kg		121	70 - 130	4	35
Ethylbenzene	0.100	0.1227		mg/Kg		123	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2403		mg/Kg		120	70 - 130	3	35
o-Xylene	0.100	0.1277		mg/Kg		128	70 - 130	5	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1437-1 MS
Matrix: Solid
Analysis Batch: 10201

Client Sample ID: C-1150
Prep Type: Total/NA
Prep Batch: 9958

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1 F2	0.100	0.003801	F1	mg/Kg		3	70 - 130
Toluene	<0.00199	U F1 F2	0.100	0.05659	F1	mg/Kg		56	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.100	0.04838	F1	mg/Kg		48	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.07502	F1	mg/Kg		38	70 - 130
o-Xylene	<0.00199	U F1 F2	0.100	0.06994	F1	mg/Kg		69	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: 890-1437-1 MSD
Matrix: Solid
Analysis Batch: 10201

Client Sample ID: C-1150
Prep Type: Total/NA
Prep Batch: 9958

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1 F2	0.0998	0.05186	F1 F2	mg/Kg		51	70 - 130	173	35
Toluene	<0.00199	U F1 F2	0.0998	0.01243	F1 F2	mg/Kg		12	70 - 130	128	35
Ethylbenzene	<0.00199	U F1 F2	0.0998	0.02000	F1 F2	mg/Kg		20	70 - 130	83	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.03711	F1 F2	mg/Kg		19	70 - 130	68	35
o-Xylene	<0.00199	U F1 F2	0.0998	0.2303	F1 F2	mg/Kg		230	70 - 130	107	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	36	S1-	70 - 130
1,4-Difluorobenzene (Surr)	28	S1-	70 - 130

Lab Sample ID: MB 880-9960/5-A
Matrix: Solid
Analysis Batch: 10201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9960

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 05:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 05:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 05:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 11:13	10/23/21 05:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 11:13	10/23/21 05:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 11:13	10/23/21 05:43	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	99		70 - 130	10/20/21 11:13	10/23/21 05:43	1		
1,4-Difluorobenzene (Surr)	106		70 - 130	10/20/21 11:13	10/23/21 05:43	1		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-9960/1-A

Matrix: Solid

Analysis Batch: 10201

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08996		mg/Kg		90	70 - 130
Toluene	0.100	0.07577		mg/Kg		76	70 - 130
Ethylbenzene	0.100	0.08435		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1489		mg/Kg		74	70 - 130
o-Xylene	0.100	0.07846		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-9960/2-A

Matrix: Solid

Analysis Batch: 10201

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9960

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1084		mg/Kg		108	70 - 130	19	35
Toluene	0.100	0.1130	*1	mg/Kg		113	70 - 130	39	35
Ethylbenzene	0.100	0.1214	*1	mg/Kg		121	70 - 130	36	35
m-Xylene & p-Xylene	0.200	0.2358	*1	mg/Kg		118	70 - 130	45	35
o-Xylene	0.100	0.1200	*1	mg/Kg		120	70 - 130	42	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-1437-21 MS

Matrix: Solid

Analysis Batch: 10201

Client Sample ID: C-1170

Prep Type: Total/NA

Prep Batch: 9960

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1 F2	0.100	0.01488	F1	mg/Kg		15	70 - 130
Toluene	<0.00200	U F1 F2	0.100	0.01777	F1	mg/Kg		17	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.03509	F1	mg/Kg		34	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.03697	F1	mg/Kg		18	70 - 130
o-Xylene	<0.00200	U F1 F2	0.100	0.02824	F1	mg/Kg		28	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: 890-1437-21 MSD

Matrix: Solid

Analysis Batch: 10201

Client Sample ID: C-1170

Prep Type: Total/NA

Prep Batch: 9960

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.0990	0.03694	F1 F2	mg/Kg		37	70 - 130	85	35
Toluene	<0.00200	U F1 F2	0.0990	0.03277	F1 F2	mg/Kg		32	70 - 130	59	35
Ethylbenzene	<0.00200	U F1	0.0990	0.03808	F1	mg/Kg		38	70 - 130	8	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1437-21 MSD

Matrix: Solid

Analysis Batch: 10201

Client Sample ID: C-1170

Prep Type: Total/NA

Prep Batch: 9960

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.198	0.06692	F1 F2	mg/Kg		34	70 - 130	58	35
o-Xylene	<0.00200	U F1 F2	0.0990	0.04226	F1 F2	mg/Kg		42	70 - 130	40	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-10136/1-A

Matrix: Solid

Analysis Batch: 10053

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10136

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 14:50	10/21/21 20:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 14:50	10/21/21 20:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 14:50	10/21/21 20:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/21/21 14:50	10/21/21 20:53	1
o-Terphenyl	123		70 - 130			10/21/21 14:50	10/21/21 20:53	1

Lab Sample ID: LCS 880-10136/2-A

Matrix: Solid

Analysis Batch: 10053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	889.0		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	864.9		mg/Kg		86	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	89		70 - 130						

Lab Sample ID: LCSD 880-10136/3-A

Matrix: Solid

Analysis Batch: 10053

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10136

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	900.4		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	998.8		mg/Kg		100	70 - 130	14	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-10136/3-A

Matrix: Solid

Analysis Batch: 10053

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10136

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: MB 880-10225/1-A

Matrix: Solid

Analysis Batch: 10161

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10225

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 13:37	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 13:37	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 11:51	10/22/21 13:37	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	123		70 - 130			10/22/21 11:51	10/22/21 13:37	1	
o-Terphenyl	134	S1+	70 - 130			10/22/21 11:51	10/22/21 13:37	1	

Lab Sample ID: LCS 880-10225/2-A

Matrix: Solid

Analysis Batch: 10161

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10225

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10		1000	806.0		mg/Kg		81	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	897.7		mg/Kg		90	70 - 130	
Surrogate									
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	95		70 - 130						
o-Terphenyl	90		70 - 130						

Lab Sample ID: LCSD 880-10225/3-A

Matrix: Solid

Analysis Batch: 10161

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10225

		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10		1000	950.8		mg/Kg		95	70 - 130	16	20
Diesel Range Organics (Over C10-C28)		1000	1071		mg/Kg		107	70 - 130	18	20
Surrogate										
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	99		70 - 130							
o-Terphenyl	100		70 - 130							

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1437-1 MS

Matrix: Solid

Analysis Batch: 10161

Client Sample ID: C-1150

Prep Type: Total/NA

Prep Batch: 10225

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1154		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1187		mg/Kg		116	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	151	S1+	70 - 130						
o-Terphenyl	159	S1+	70 - 130						

Lab Sample ID: 890-1437-1 MSD

Matrix: Solid

Analysis Batch: 10161

Client Sample ID: C-1150

Prep Type: Total/NA

Prep Batch: 10225

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1162		mg/Kg		114	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1215		mg/Kg		118	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	151	S1+	70 - 130								
o-Terphenyl	161	S1+	70 - 130								

Lab Sample ID: MB 880-10254/1-A

Matrix: Solid

Analysis Batch: 10309

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10254

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 11:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 11:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 12:49	10/23/21 11:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			10/22/21 12:49	10/23/21 11:32	1
o-Terphenyl	102		70 - 130			10/22/21 12:49	10/23/21 11:32	1

Lab Sample ID: LCS 880-10254/2-A

Matrix: Solid

Analysis Batch: 10309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1293		mg/Kg		129	70 - 130
Diesel Range Organics (Over C10-C28)	1000	855.3		mg/Kg		86	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-10254/2-A

Matrix: Solid

Analysis Batch: 10309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10254

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-10254/3-A

Matrix: Solid

Analysis Batch: 10309

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10254

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1235		mg/Kg		123	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	760.6		mg/Kg		76	70 - 130	12	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-1437-21 MS

Matrix: Solid

Analysis Batch: 10309

Client Sample ID: C-1170

Prep Type: Total/NA

Prep Batch: 10254

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1184		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	868.5		mg/Kg		87	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 890-1437-21 MSD

Matrix: Solid

Analysis Batch: 10309

Client Sample ID: C-1170

Prep Type: Total/NA

Prep Batch: 10254

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	973.8		mg/Kg		97	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	845.0		mg/Kg		85	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	103		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-10256/1-A

Matrix: Solid

Analysis Batch: 10311

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10256

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/22/21 12:52	10/23/21 21:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/22/21 12:52	10/23/21 21:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/22/21 12:52	10/23/21 21:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/22/21 12:52	10/23/21 21:07	1
o-Terphenyl	127		70 - 130			10/22/21 12:52	10/23/21 21:07	1

Lab Sample ID: LCS 880-10256/2-A

Matrix: Solid

Analysis Batch: 10311

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	784.0		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	1000	937.6		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	92		70 - 130				
o-Terphenyl	98		70 - 130				

Lab Sample ID: LCSD 880-10256/3-A

Matrix: Solid

Analysis Batch: 10311

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10256

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	841.4		mg/Kg		84	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	872.3		mg/Kg		87	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	96		70 - 130						
o-Terphenyl	94		70 - 130						

Lab Sample ID: 890-1437-41 MS

Matrix: Solid

Analysis Batch: 10311

Client Sample ID: C-1190

Prep Type: Total/NA

Prep Batch: 10256

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	997	<49.9	U F1	mg/Kg		2	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	<49.9	U F1	mg/Kg		0	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1437-41 MS

Matrix: Solid

Analysis Batch: 10311

Client Sample ID: C-1190

Prep Type: Total/NA

Prep Batch: 10256

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-1437-41 MSD

Matrix: Solid

Analysis Batch: 10311

Client Sample ID: C-1190

Prep Type: Total/NA

Prep Batch: 10256

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	1000	<50.0	U F1 F2	mg/Kg		3	70 - 130	47	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	<50.0	U F1	mg/Kg		0	70 - 130	NC	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	117		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9755/1-A

Matrix: Solid

Analysis Batch: 10000

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/20/21 16:38	1

Lab Sample ID: LCS 880-9755/2-A

Matrix: Solid

Analysis Batch: 10000

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	240.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-9755/3-A

Matrix: Solid

Analysis Batch: 10000

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	241.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-1437-13 MS

Matrix: Solid

Analysis Batch: 10000

Client Sample ID: C-1162

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	27.5		251	270.3		mg/Kg		97	90 - 110

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1437-13 MSD

Matrix: Solid

Analysis Batch: 10000

Client Sample ID: C-1162

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	27.5		251	268.3		mg/Kg		96	90 - 110	1	20

Lab Sample ID: MB 880-9775/1-A

Matrix: Solid

Analysis Batch: 10150

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/22/21 07:56	1

Lab Sample ID: LCS 880-9775/2-A

Matrix: Solid

Analysis Batch: 10150

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.4		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-9775/3-A

Matrix: Solid

Analysis Batch: 10150

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	262.6		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-1437-2 MS

Matrix: Solid

Analysis Batch: 10150

Client Sample ID: C-1151

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	111		251	363.9		mg/Kg		101	90 - 110

Lab Sample ID: 890-1437-2 MSD

Matrix: Solid

Analysis Batch: 10150

Client Sample ID: C-1151

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	111		251	351.8		mg/Kg		96	90 - 110	3	20

Lab Sample ID: MB 880-9767/1-A

Matrix: Solid

Analysis Batch: 10156

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/22/21 10:49	1

Lab Sample ID: LCS 880-9767/2-A

Matrix: Solid

Analysis Batch: 10156

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	253.8		mg/Kg		102	90 - 110

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-9767/3-A

Matrix: Solid

Analysis Batch: 10156

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	253.8		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-9760/1-A

Matrix: Solid

Analysis Batch: 10157

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/22/21 14:44	1

Lab Sample ID: LCS 880-9760/2-A

Matrix: Solid

Analysis Batch: 10157

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD
Chloride	250	249.6		mg/Kg		100	90 - 110	

Lab Sample ID: LCSD 880-9760/3-A

Matrix: Solid

Analysis Batch: 10157

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1437-24 MS

Matrix: Solid

Analysis Batch: 10157

Client Sample ID: C-1173

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD
Chloride	370		248	616.8		mg/Kg		100	90 - 110	

Lab Sample ID: 890-1437-24 MSD

Matrix: Solid

Analysis Batch: 10157

Client Sample ID: C-1173

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	370		248	603.4		mg/Kg		94	90 - 110	2	20

Lab Sample ID: 890-1437-34 MS

Matrix: Solid

Analysis Batch: 10157

Client Sample ID: C-1183

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD
Chloride	1110		251	1294	4	mg/Kg		75	90 - 110	

Lab Sample ID: 890-1437-34 MSD

Matrix: Solid

Analysis Batch: 10157

Client Sample ID: C-1183

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1110		251	1280	4	mg/Kg		70	90 - 110	1	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10447/1-A

Matrix: Solid

Analysis Batch: 10433

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/25/21 15:13	1

Lab Sample ID: LCS 880-10447/2-A

Matrix: Solid

Analysis Batch: 10433

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	209.3		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-10447/3-A

Matrix: Solid

Analysis Batch: 10433

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	200	207.3		mg/Kg		104	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

GC VOA

Prep Batch: 9954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9954/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 9958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-1	C-1150	Total/NA	Solid	5035	
890-1437-2	C-1151	Total/NA	Solid	5035	
890-1437-3	C-1152	Total/NA	Solid	5035	
890-1437-4	C-1153	Total/NA	Solid	5035	
890-1437-5	C-1154	Total/NA	Solid	5035	
890-1437-6	C-1155	Total/NA	Solid	5035	
890-1437-7	C-1156	Total/NA	Solid	5035	
890-1437-8	C-1157	Total/NA	Solid	5035	
890-1437-9	C-1158	Total/NA	Solid	5035	
890-1437-10	C-1159	Total/NA	Solid	5035	
890-1437-11	C-1160	Total/NA	Solid	5035	
890-1437-12	C-1161	Total/NA	Solid	5035	
890-1437-13	C-1162	Total/NA	Solid	5035	
890-1437-14	C-1163	Total/NA	Solid	5035	
890-1437-15	C-1164	Total/NA	Solid	5035	
890-1437-16	C-1165	Total/NA	Solid	5035	
890-1437-17	C-1166	Total/NA	Solid	5035	
890-1437-18	C-1167	Total/NA	Solid	5035	
890-1437-19	C-1168	Total/NA	Solid	5035	
890-1437-20	C-1169	Total/NA	Solid	5035	
MB 880-9958/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9958/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9958/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1437-1 MS	C-1150	Total/NA	Solid	5035	
890-1437-1 MSD	C-1150	Total/NA	Solid	5035	

Prep Batch: 9960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-21	C-1170	Total/NA	Solid	5035	
890-1437-22	C-1171	Total/NA	Solid	5035	
890-1437-23	C-1172	Total/NA	Solid	5035	
890-1437-24	C-1173	Total/NA	Solid	5035	
890-1437-25	C-1174	Total/NA	Solid	5035	
890-1437-26	C-1175	Total/NA	Solid	5035	
890-1437-27	C-1176	Total/NA	Solid	5035	
890-1437-28	C-1177	Total/NA	Solid	5035	
890-1437-29	C-1178	Total/NA	Solid	5035	
890-1437-30	C-1179	Total/NA	Solid	5035	
890-1437-31	C-1180	Total/NA	Solid	5035	
890-1437-32	C-1181	Total/NA	Solid	5035	
890-1437-33	C-1182	Total/NA	Solid	5035	
890-1437-34	C-1183	Total/NA	Solid	5035	
890-1437-35	C-1184	Total/NA	Solid	5035	
890-1437-36	C-1185	Total/NA	Solid	5035	
890-1437-37	C-1186	Total/NA	Solid	5035	
890-1437-38	C-1187	Total/NA	Solid	5035	
890-1437-39	C-1188	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 9960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-40	C-1189	Total/NA	Solid	5035	
MB 880-9960/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9960/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9960/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1437-21 MS	C-1170	Total/NA	Solid	5035	
890-1437-21 MSD	C-1170	Total/NA	Solid	5035	

Prep Batch: 10009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10009/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 10011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-43	C-1192	Total/NA	Solid	5035	
890-1437-44	C-1193	Total/NA	Solid	5035	
890-1437-45	C-1194	Total/NA	Solid	5035	
890-1437-46	C-1195	Total/NA	Solid	5035	
890-1437-47	C-1196	Total/NA	Solid	5035	
LCS 880-10011/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10011/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 10082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-41	C-1190	Total/NA	Solid	5035	
890-1437-42	C-1191	Total/NA	Solid	5035	
MB 880-10082/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10082/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10082/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 10086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-41	C-1190	Total/NA	Solid	8021B	10082
890-1437-42	C-1191	Total/NA	Solid	8021B	10082
MB 880-10082/5-A	Method Blank	Total/NA	Solid	8021B	10082
MB 880-9954/5-A	Method Blank	Total/NA	Solid	8021B	9954
LCS 880-10082/1-A	Lab Control Sample	Total/NA	Solid	8021B	10082
LCSD 880-10082/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10082

Analysis Batch: 10201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-1	C-1150	Total/NA	Solid	8021B	9958
890-1437-2	C-1151	Total/NA	Solid	8021B	9958
890-1437-3	C-1152	Total/NA	Solid	8021B	9958
890-1437-4	C-1153	Total/NA	Solid	8021B	9958
890-1437-5	C-1154	Total/NA	Solid	8021B	9958
890-1437-6	C-1155	Total/NA	Solid	8021B	9958
890-1437-7	C-1156	Total/NA	Solid	8021B	9958
890-1437-8	C-1157	Total/NA	Solid	8021B	9958
890-1437-9	C-1158	Total/NA	Solid	8021B	9958
890-1437-10	C-1159	Total/NA	Solid	8021B	9958
890-1437-11	C-1160	Total/NA	Solid	8021B	9958

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 10201 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-12	C-1161	Total/NA	Solid	8021B	9958
890-1437-13	C-1162	Total/NA	Solid	8021B	9958
890-1437-14	C-1163	Total/NA	Solid	8021B	9958
890-1437-15	C-1164	Total/NA	Solid	8021B	9958
890-1437-16	C-1165	Total/NA	Solid	8021B	9958
890-1437-17	C-1166	Total/NA	Solid	8021B	9958
890-1437-18	C-1167	Total/NA	Solid	8021B	9958
890-1437-19	C-1168	Total/NA	Solid	8021B	9958
890-1437-20	C-1169	Total/NA	Solid	8021B	9958
890-1437-21	C-1170	Total/NA	Solid	8021B	9960
890-1437-22	C-1171	Total/NA	Solid	8021B	9960
890-1437-23	C-1172	Total/NA	Solid	8021B	9960
890-1437-24	C-1173	Total/NA	Solid	8021B	9960
890-1437-25	C-1174	Total/NA	Solid	8021B	9960
890-1437-26	C-1175	Total/NA	Solid	8021B	9960
890-1437-27	C-1176	Total/NA	Solid	8021B	9960
890-1437-28	C-1177	Total/NA	Solid	8021B	9960
890-1437-29	C-1178	Total/NA	Solid	8021B	9960
890-1437-30	C-1179	Total/NA	Solid	8021B	9960
890-1437-31	C-1180	Total/NA	Solid	8021B	9960
890-1437-32	C-1181	Total/NA	Solid	8021B	9960
890-1437-33	C-1182	Total/NA	Solid	8021B	9960
890-1437-34	C-1183	Total/NA	Solid	8021B	9960
890-1437-35	C-1184	Total/NA	Solid	8021B	9960
890-1437-36	C-1185	Total/NA	Solid	8021B	9960
890-1437-37	C-1186	Total/NA	Solid	8021B	9960
890-1437-38	C-1187	Total/NA	Solid	8021B	9960
890-1437-39	C-1188	Total/NA	Solid	8021B	9960
890-1437-40	C-1189	Total/NA	Solid	8021B	9960
MB 880-9958/5-A	Method Blank	Total/NA	Solid	8021B	9958
MB 880-9960/5-A	Method Blank	Total/NA	Solid	8021B	9960
LCS 880-9958/1-A	Lab Control Sample	Total/NA	Solid	8021B	9958
LCS 880-9960/1-A	Lab Control Sample	Total/NA	Solid	8021B	9960
LCSD 880-9958/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9958
LCSD 880-9960/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9960
890-1437-1 MS	C-1150	Total/NA	Solid	8021B	9958
890-1437-1 MSD	C-1150	Total/NA	Solid	8021B	9958
890-1437-21 MS	C-1170	Total/NA	Solid	8021B	9960
890-1437-21 MSD	C-1170	Total/NA	Solid	8021B	9960

Analysis Batch: 10332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-43	C-1192	Total/NA	Solid	8021B	10011
890-1437-44	C-1193	Total/NA	Solid	8021B	10011
890-1437-45	C-1194	Total/NA	Solid	8021B	10011
890-1437-46	C-1195	Total/NA	Solid	8021B	10011
890-1437-47	C-1196	Total/NA	Solid	8021B	10011
MB 880-10009/5-A	Method Blank	Total/NA	Solid	8021B	10009
LCS 880-10011/1-A	Lab Control Sample	Total/NA	Solid	8021B	10011
LCSD 880-10011/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10011

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

GC VOA

Analysis Batch: 10531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-1	C-1150	Total/NA	Solid	Total BTEX	
890-1437-2	C-1151	Total/NA	Solid	Total BTEX	
890-1437-3	C-1152	Total/NA	Solid	Total BTEX	
890-1437-4	C-1153	Total/NA	Solid	Total BTEX	
890-1437-5	C-1154	Total/NA	Solid	Total BTEX	
890-1437-6	C-1155	Total/NA	Solid	Total BTEX	
890-1437-7	C-1156	Total/NA	Solid	Total BTEX	
890-1437-8	C-1157	Total/NA	Solid	Total BTEX	
890-1437-9	C-1158	Total/NA	Solid	Total BTEX	
890-1437-10	C-1159	Total/NA	Solid	Total BTEX	
890-1437-11	C-1160	Total/NA	Solid	Total BTEX	
890-1437-12	C-1161	Total/NA	Solid	Total BTEX	
890-1437-13	C-1162	Total/NA	Solid	Total BTEX	
890-1437-14	C-1163	Total/NA	Solid	Total BTEX	
890-1437-15	C-1164	Total/NA	Solid	Total BTEX	
890-1437-16	C-1165	Total/NA	Solid	Total BTEX	
890-1437-17	C-1166	Total/NA	Solid	Total BTEX	
890-1437-18	C-1167	Total/NA	Solid	Total BTEX	
890-1437-19	C-1168	Total/NA	Solid	Total BTEX	
890-1437-20	C-1169	Total/NA	Solid	Total BTEX	
890-1437-21	C-1170	Total/NA	Solid	Total BTEX	
890-1437-22	C-1171	Total/NA	Solid	Total BTEX	
890-1437-23	C-1172	Total/NA	Solid	Total BTEX	
890-1437-24	C-1173	Total/NA	Solid	Total BTEX	
890-1437-25	C-1174	Total/NA	Solid	Total BTEX	
890-1437-26	C-1175	Total/NA	Solid	Total BTEX	
890-1437-27	C-1176	Total/NA	Solid	Total BTEX	
890-1437-28	C-1177	Total/NA	Solid	Total BTEX	
890-1437-29	C-1178	Total/NA	Solid	Total BTEX	
890-1437-30	C-1179	Total/NA	Solid	Total BTEX	
890-1437-31	C-1180	Total/NA	Solid	Total BTEX	
890-1437-32	C-1181	Total/NA	Solid	Total BTEX	
890-1437-33	C-1182	Total/NA	Solid	Total BTEX	
890-1437-34	C-1183	Total/NA	Solid	Total BTEX	
890-1437-35	C-1184	Total/NA	Solid	Total BTEX	
890-1437-36	C-1185	Total/NA	Solid	Total BTEX	
890-1437-37	C-1186	Total/NA	Solid	Total BTEX	
890-1437-38	C-1187	Total/NA	Solid	Total BTEX	
890-1437-39	C-1188	Total/NA	Solid	Total BTEX	
890-1437-40	C-1189	Total/NA	Solid	Total BTEX	
890-1437-41	C-1190	Total/NA	Solid	Total BTEX	
890-1437-42	C-1191	Total/NA	Solid	Total BTEX	
890-1437-43	C-1192	Total/NA	Solid	Total BTEX	
890-1437-44	C-1193	Total/NA	Solid	Total BTEX	
890-1437-45	C-1194	Total/NA	Solid	Total BTEX	
890-1437-46	C-1195	Total/NA	Solid	Total BTEX	
890-1437-47	C-1196	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 10053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-45	C-1194	Total/NA	Solid	8015B NM	10136
890-1437-46	C-1195	Total/NA	Solid	8015B NM	10136
890-1437-47	C-1196	Total/NA	Solid	8015B NM	10136
MB 880-10136/1-A	Method Blank	Total/NA	Solid	8015B NM	10136
LCS 880-10136/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10136
LCSD 880-10136/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10136

Prep Batch: 10136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-45	C-1194	Total/NA	Solid	8015NM Prep	
890-1437-46	C-1195	Total/NA	Solid	8015NM Prep	
890-1437-47	C-1196	Total/NA	Solid	8015NM Prep	
MB 880-10136/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10136/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10136/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-1	C-1150	Total/NA	Solid	8015B NM	10225
890-1437-2	C-1151	Total/NA	Solid	8015B NM	10225
890-1437-3	C-1152	Total/NA	Solid	8015B NM	10225
890-1437-4	C-1153	Total/NA	Solid	8015B NM	10225
890-1437-5	C-1154	Total/NA	Solid	8015B NM	10225
890-1437-6	C-1155	Total/NA	Solid	8015B NM	10225
890-1437-7	C-1156	Total/NA	Solid	8015B NM	10225
890-1437-8	C-1157	Total/NA	Solid	8015B NM	10225
890-1437-9	C-1158	Total/NA	Solid	8015B NM	10225
890-1437-10	C-1159	Total/NA	Solid	8015B NM	10225
890-1437-11	C-1160	Total/NA	Solid	8015B NM	10225
890-1437-12	C-1161	Total/NA	Solid	8015B NM	10225
890-1437-13	C-1162	Total/NA	Solid	8015B NM	10225
890-1437-14	C-1163	Total/NA	Solid	8015B NM	10225
890-1437-15	C-1164	Total/NA	Solid	8015B NM	10225
890-1437-16	C-1165	Total/NA	Solid	8015B NM	10225
890-1437-17	C-1166	Total/NA	Solid	8015B NM	10225
890-1437-18	C-1167	Total/NA	Solid	8015B NM	10225
890-1437-19	C-1168	Total/NA	Solid	8015B NM	10225
890-1437-20	C-1169	Total/NA	Solid	8015B NM	10225
MB 880-10225/1-A	Method Blank	Total/NA	Solid	8015B NM	10225
LCS 880-10225/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10225
LCSD 880-10225/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10225
890-1437-1 MS	C-1150	Total/NA	Solid	8015B NM	10225
890-1437-1 MSD	C-1150	Total/NA	Solid	8015B NM	10225

Prep Batch: 10225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-1	C-1150	Total/NA	Solid	8015NM Prep	
890-1437-2	C-1151	Total/NA	Solid	8015NM Prep	
890-1437-3	C-1152	Total/NA	Solid	8015NM Prep	
890-1437-4	C-1153	Total/NA	Solid	8015NM Prep	
890-1437-5	C-1154	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 10225 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-6	C-1155	Total/NA	Solid	8015NM Prep	
890-1437-7	C-1156	Total/NA	Solid	8015NM Prep	
890-1437-8	C-1157	Total/NA	Solid	8015NM Prep	
890-1437-9	C-1158	Total/NA	Solid	8015NM Prep	
890-1437-10	C-1159	Total/NA	Solid	8015NM Prep	
890-1437-11	C-1160	Total/NA	Solid	8015NM Prep	
890-1437-12	C-1161	Total/NA	Solid	8015NM Prep	
890-1437-13	C-1162	Total/NA	Solid	8015NM Prep	
890-1437-14	C-1163	Total/NA	Solid	8015NM Prep	
890-1437-15	C-1164	Total/NA	Solid	8015NM Prep	
890-1437-16	C-1165	Total/NA	Solid	8015NM Prep	
890-1437-17	C-1166	Total/NA	Solid	8015NM Prep	
890-1437-18	C-1167	Total/NA	Solid	8015NM Prep	
890-1437-19	C-1168	Total/NA	Solid	8015NM Prep	
890-1437-20	C-1169	Total/NA	Solid	8015NM Prep	
MB 880-10225/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10225/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10225/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1437-1 MS	C-1150	Total/NA	Solid	8015NM Prep	
890-1437-1 MSD	C-1150	Total/NA	Solid	8015NM Prep	

Prep Batch: 10254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-21	C-1170	Total/NA	Solid	8015NM Prep	
890-1437-22	C-1171	Total/NA	Solid	8015NM Prep	
890-1437-23	C-1172	Total/NA	Solid	8015NM Prep	
890-1437-24	C-1173	Total/NA	Solid	8015NM Prep	
890-1437-25	C-1174	Total/NA	Solid	8015NM Prep	
890-1437-26	C-1175	Total/NA	Solid	8015NM Prep	
890-1437-27	C-1176	Total/NA	Solid	8015NM Prep	
890-1437-28	C-1177	Total/NA	Solid	8015NM Prep	
890-1437-29	C-1178	Total/NA	Solid	8015NM Prep	
890-1437-30	C-1179	Total/NA	Solid	8015NM Prep	
890-1437-31	C-1180	Total/NA	Solid	8015NM Prep	
890-1437-32	C-1181	Total/NA	Solid	8015NM Prep	
890-1437-33	C-1182	Total/NA	Solid	8015NM Prep	
890-1437-34	C-1183	Total/NA	Solid	8015NM Prep	
890-1437-35	C-1184	Total/NA	Solid	8015NM Prep	
890-1437-36	C-1185	Total/NA	Solid	8015NM Prep	
890-1437-37	C-1186	Total/NA	Solid	8015NM Prep	
890-1437-38	C-1187	Total/NA	Solid	8015NM Prep	
890-1437-39	C-1188	Total/NA	Solid	8015NM Prep	
890-1437-40	C-1189	Total/NA	Solid	8015NM Prep	
MB 880-10254/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10254/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10254/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1437-21 MS	C-1170	Total/NA	Solid	8015NM Prep	
890-1437-21 MSD	C-1170	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 10256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-41	C-1190	Total/NA	Solid	8015NM Prep	
890-1437-42	C-1191	Total/NA	Solid	8015NM Prep	
890-1437-43	C-1192	Total/NA	Solid	8015NM Prep	
890-1437-44	C-1193	Total/NA	Solid	8015NM Prep	
MB 880-10256/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10256/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10256/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1437-41 MS	C-1190	Total/NA	Solid	8015NM Prep	
890-1437-41 MSD	C-1190	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-21	C-1170	Total/NA	Solid	8015B NM	10254
890-1437-22	C-1171	Total/NA	Solid	8015B NM	10254
890-1437-23	C-1172	Total/NA	Solid	8015B NM	10254
890-1437-24	C-1173	Total/NA	Solid	8015B NM	10254
890-1437-25	C-1174	Total/NA	Solid	8015B NM	10254
890-1437-26	C-1175	Total/NA	Solid	8015B NM	10254
890-1437-27	C-1176	Total/NA	Solid	8015B NM	10254
890-1437-28	C-1177	Total/NA	Solid	8015B NM	10254
890-1437-29	C-1178	Total/NA	Solid	8015B NM	10254
890-1437-30	C-1179	Total/NA	Solid	8015B NM	10254
890-1437-31	C-1180	Total/NA	Solid	8015B NM	10254
890-1437-32	C-1181	Total/NA	Solid	8015B NM	10254
890-1437-33	C-1182	Total/NA	Solid	8015B NM	10254
890-1437-34	C-1183	Total/NA	Solid	8015B NM	10254
890-1437-35	C-1184	Total/NA	Solid	8015B NM	10254
890-1437-36	C-1185	Total/NA	Solid	8015B NM	10254
890-1437-37	C-1186	Total/NA	Solid	8015B NM	10254
890-1437-38	C-1187	Total/NA	Solid	8015B NM	10254
890-1437-39	C-1188	Total/NA	Solid	8015B NM	10254
890-1437-40	C-1189	Total/NA	Solid	8015B NM	10254
MB 880-10254/1-A	Method Blank	Total/NA	Solid	8015B NM	10254
LCS 880-10254/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10254
LCSD 880-10254/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10254
890-1437-21 MS	C-1170	Total/NA	Solid	8015B NM	10254
890-1437-21 MSD	C-1170	Total/NA	Solid	8015B NM	10254

Analysis Batch: 10311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-41	C-1190	Total/NA	Solid	8015B NM	10256
890-1437-42	C-1191	Total/NA	Solid	8015B NM	10256
890-1437-43	C-1192	Total/NA	Solid	8015B NM	10256
890-1437-44	C-1193	Total/NA	Solid	8015B NM	10256
MB 880-10256/1-A	Method Blank	Total/NA	Solid	8015B NM	10256
LCS 880-10256/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10256
LCSD 880-10256/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10256
890-1437-41 MS	C-1190	Total/NA	Solid	8015B NM	10256
890-1437-41 MSD	C-1190	Total/NA	Solid	8015B NM	10256

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 10533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-1	C-1150	Total/NA	Solid	8015 NM	
890-1437-2	C-1151	Total/NA	Solid	8015 NM	
890-1437-3	C-1152	Total/NA	Solid	8015 NM	
890-1437-4	C-1153	Total/NA	Solid	8015 NM	
890-1437-5	C-1154	Total/NA	Solid	8015 NM	
890-1437-6	C-1155	Total/NA	Solid	8015 NM	
890-1437-7	C-1156	Total/NA	Solid	8015 NM	
890-1437-8	C-1157	Total/NA	Solid	8015 NM	
890-1437-9	C-1158	Total/NA	Solid	8015 NM	
890-1437-10	C-1159	Total/NA	Solid	8015 NM	
890-1437-11	C-1160	Total/NA	Solid	8015 NM	
890-1437-12	C-1161	Total/NA	Solid	8015 NM	
890-1437-13	C-1162	Total/NA	Solid	8015 NM	
890-1437-14	C-1163	Total/NA	Solid	8015 NM	
890-1437-15	C-1164	Total/NA	Solid	8015 NM	
890-1437-16	C-1165	Total/NA	Solid	8015 NM	
890-1437-17	C-1166	Total/NA	Solid	8015 NM	
890-1437-18	C-1167	Total/NA	Solid	8015 NM	
890-1437-19	C-1168	Total/NA	Solid	8015 NM	
890-1437-20	C-1169	Total/NA	Solid	8015 NM	
890-1437-21	C-1170	Total/NA	Solid	8015 NM	
890-1437-22	C-1171	Total/NA	Solid	8015 NM	
890-1437-23	C-1172	Total/NA	Solid	8015 NM	
890-1437-24	C-1173	Total/NA	Solid	8015 NM	
890-1437-25	C-1174	Total/NA	Solid	8015 NM	
890-1437-26	C-1175	Total/NA	Solid	8015 NM	
890-1437-27	C-1176	Total/NA	Solid	8015 NM	
890-1437-28	C-1177	Total/NA	Solid	8015 NM	
890-1437-29	C-1178	Total/NA	Solid	8015 NM	
890-1437-30	C-1179	Total/NA	Solid	8015 NM	
890-1437-31	C-1180	Total/NA	Solid	8015 NM	
890-1437-32	C-1181	Total/NA	Solid	8015 NM	
890-1437-33	C-1182	Total/NA	Solid	8015 NM	
890-1437-34	C-1183	Total/NA	Solid	8015 NM	
890-1437-35	C-1184	Total/NA	Solid	8015 NM	
890-1437-36	C-1185	Total/NA	Solid	8015 NM	
890-1437-37	C-1186	Total/NA	Solid	8015 NM	
890-1437-38	C-1187	Total/NA	Solid	8015 NM	
890-1437-39	C-1188	Total/NA	Solid	8015 NM	
890-1437-40	C-1189	Total/NA	Solid	8015 NM	
890-1437-41	C-1190	Total/NA	Solid	8015 NM	
890-1437-42	C-1191	Total/NA	Solid	8015 NM	
890-1437-43	C-1192	Total/NA	Solid	8015 NM	
890-1437-44	C-1193	Total/NA	Solid	8015 NM	
890-1437-45	C-1194	Total/NA	Solid	8015 NM	
890-1437-46	C-1195	Total/NA	Solid	8015 NM	
890-1437-47	C-1196	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 9755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-8	C-1157	Soluble	Solid	DI Leach	
890-1437-9	C-1158	Soluble	Solid	DI Leach	
890-1437-10	C-1159	Soluble	Solid	DI Leach	
890-1437-11	C-1160	Soluble	Solid	DI Leach	
890-1437-12	C-1161	Soluble	Solid	DI Leach	
890-1437-13	C-1162	Soluble	Solid	DI Leach	
890-1437-14	C-1163	Soluble	Solid	DI Leach	
890-1437-15	C-1164	Soluble	Solid	DI Leach	
890-1437-16	C-1165	Soluble	Solid	DI Leach	
890-1437-17	C-1166	Soluble	Solid	DI Leach	
890-1437-18	C-1167	Soluble	Solid	DI Leach	
890-1437-19	C-1168	Soluble	Solid	DI Leach	
890-1437-20	C-1169	Soluble	Solid	DI Leach	
890-1437-21	C-1170	Soluble	Solid	DI Leach	
890-1437-23	C-1172	Soluble	Solid	DI Leach	
MB 880-9755/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9755/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9755/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1437-13 MS	C-1162	Soluble	Solid	DI Leach	
890-1437-13 MSD	C-1162	Soluble	Solid	DI Leach	

Leach Batch: 9760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-24	C-1173	Soluble	Solid	DI Leach	
890-1437-25	C-1174	Soluble	Solid	DI Leach	
890-1437-26	C-1175	Soluble	Solid	DI Leach	
890-1437-27	C-1176	Soluble	Solid	DI Leach	
890-1437-28	C-1177	Soluble	Solid	DI Leach	
890-1437-29	C-1178	Soluble	Solid	DI Leach	
890-1437-30	C-1179	Soluble	Solid	DI Leach	
890-1437-31	C-1180	Soluble	Solid	DI Leach	
890-1437-32	C-1181	Soluble	Solid	DI Leach	
890-1437-33	C-1182	Soluble	Solid	DI Leach	
890-1437-34	C-1183	Soluble	Solid	DI Leach	
890-1437-35	C-1184	Soluble	Solid	DI Leach	
890-1437-36	C-1185	Soluble	Solid	DI Leach	
890-1437-37	C-1186	Soluble	Solid	DI Leach	
890-1437-38	C-1187	Soluble	Solid	DI Leach	
890-1437-39	C-1188	Soluble	Solid	DI Leach	
890-1437-40	C-1189	Soluble	Solid	DI Leach	
890-1437-41	C-1190	Soluble	Solid	DI Leach	
890-1437-42	C-1191	Soluble	Solid	DI Leach	
890-1437-43	C-1192	Soluble	Solid	DI Leach	
MB 880-9760/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9760/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9760/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1437-24 MS	C-1173	Soluble	Solid	DI Leach	
890-1437-24 MSD	C-1173	Soluble	Solid	DI Leach	
890-1437-34 MS	C-1183	Soluble	Solid	DI Leach	
890-1437-34 MSD	C-1183	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 9767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-44	C-1193	Soluble	Solid	DI Leach	
890-1437-45	C-1194	Soluble	Solid	DI Leach	
890-1437-46	C-1195	Soluble	Solid	DI Leach	
890-1437-47	C-1196	Soluble	Solid	DI Leach	
MB 880-9767/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9767/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9767/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 9775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-1	C-1150	Soluble	Solid	DI Leach	
890-1437-2	C-1151	Soluble	Solid	DI Leach	
890-1437-3	C-1152	Soluble	Solid	DI Leach	
890-1437-4	C-1153	Soluble	Solid	DI Leach	
890-1437-5	C-1154	Soluble	Solid	DI Leach	
890-1437-6	C-1155	Soluble	Solid	DI Leach	
890-1437-7	C-1156	Soluble	Solid	DI Leach	
MB 880-9775/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9775/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9775/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1437-2 MS	C-1151	Soluble	Solid	DI Leach	
890-1437-2 MSD	C-1151	Soluble	Solid	DI Leach	

Analysis Batch: 10000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-8	C-1157	Soluble	Solid	300.0	9755
890-1437-9	C-1158	Soluble	Solid	300.0	9755
890-1437-10	C-1159	Soluble	Solid	300.0	9755
890-1437-11	C-1160	Soluble	Solid	300.0	9755
890-1437-12	C-1161	Soluble	Solid	300.0	9755
890-1437-13	C-1162	Soluble	Solid	300.0	9755
890-1437-14	C-1163	Soluble	Solid	300.0	9755
890-1437-15	C-1164	Soluble	Solid	300.0	9755
890-1437-16	C-1165	Soluble	Solid	300.0	9755
890-1437-17	C-1166	Soluble	Solid	300.0	9755
890-1437-18	C-1167	Soluble	Solid	300.0	9755
890-1437-19	C-1168	Soluble	Solid	300.0	9755
890-1437-20	C-1169	Soluble	Solid	300.0	9755
890-1437-21	C-1170	Soluble	Solid	300.0	9755
890-1437-23	C-1172	Soluble	Solid	300.0	9755
MB 880-9755/1-A	Method Blank	Soluble	Solid	300.0	9755
LCS 880-9755/2-A	Lab Control Sample	Soluble	Solid	300.0	9755
LCSD 880-9755/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9755
890-1437-13 MS	C-1162	Soluble	Solid	300.0	9755
890-1437-13 MSD	C-1162	Soluble	Solid	300.0	9755

Analysis Batch: 10150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-1	C-1150	Soluble	Solid	300.0	9775
890-1437-2	C-1151	Soluble	Solid	300.0	9775
890-1437-3	C-1152	Soluble	Solid	300.0	9775

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 10150 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-4	C-1153	Soluble	Solid	300.0	9775
890-1437-5	C-1154	Soluble	Solid	300.0	9775
890-1437-6	C-1155	Soluble	Solid	300.0	9775
890-1437-7	C-1156	Soluble	Solid	300.0	9775
MB 880-9775/1-A	Method Blank	Soluble	Solid	300.0	9775
LCS 880-9775/2-A	Lab Control Sample	Soluble	Solid	300.0	9775
LCSD 880-9775/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9775
890-1437-2 MS	C-1151	Soluble	Solid	300.0	9775
890-1437-2 MSD	C-1151	Soluble	Solid	300.0	9775

Analysis Batch: 10156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-44	C-1193	Soluble	Solid	300.0	9767
890-1437-45	C-1194	Soluble	Solid	300.0	9767
890-1437-46	C-1195	Soluble	Solid	300.0	9767
890-1437-47	C-1196	Soluble	Solid	300.0	9767
MB 880-9767/1-A	Method Blank	Soluble	Solid	300.0	9767
LCS 880-9767/2-A	Lab Control Sample	Soluble	Solid	300.0	9767
LCSD 880-9767/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9767

Analysis Batch: 10157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-24	C-1173	Soluble	Solid	300.0	9760
890-1437-25	C-1174	Soluble	Solid	300.0	9760
890-1437-26	C-1175	Soluble	Solid	300.0	9760
890-1437-27	C-1176	Soluble	Solid	300.0	9760
890-1437-28	C-1177	Soluble	Solid	300.0	9760
890-1437-29	C-1178	Soluble	Solid	300.0	9760
890-1437-30	C-1179	Soluble	Solid	300.0	9760
890-1437-31	C-1180	Soluble	Solid	300.0	9760
890-1437-32	C-1181	Soluble	Solid	300.0	9760
890-1437-33	C-1182	Soluble	Solid	300.0	9760
890-1437-34	C-1183	Soluble	Solid	300.0	9760
890-1437-35	C-1184	Soluble	Solid	300.0	9760
890-1437-36	C-1185	Soluble	Solid	300.0	9760
890-1437-37	C-1186	Soluble	Solid	300.0	9760
890-1437-38	C-1187	Soluble	Solid	300.0	9760
890-1437-39	C-1188	Soluble	Solid	300.0	9760
890-1437-40	C-1189	Soluble	Solid	300.0	9760
890-1437-41	C-1190	Soluble	Solid	300.0	9760
890-1437-42	C-1191	Soluble	Solid	300.0	9760
890-1437-43	C-1192	Soluble	Solid	300.0	9760
MB 880-9760/1-A	Method Blank	Soluble	Solid	300.0	9760
LCS 880-9760/2-A	Lab Control Sample	Soluble	Solid	300.0	9760
LCSD 880-9760/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9760
890-1437-24 MS	C-1173	Soluble	Solid	300.0	9760
890-1437-24 MSD	C-1173	Soluble	Solid	300.0	9760
890-1437-34 MS	C-1183	Soluble	Solid	300.0	9760
890-1437-34 MSD	C-1183	Soluble	Solid	300.0	9760

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 10433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-22	C-1171	Soluble	Solid	300.0	10447
MB 880-10447/1-A	Method Blank	Soluble	Solid	300.0	10447
LCS 880-10447/2-A	Lab Control Sample	Soluble	Solid	300.0	10447
LCSD 880-10447/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10447

Leach Batch: 10447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1437-22	C-1171	Soluble	Solid	DI Leach	
MB 880-10447/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10447/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10447/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1150

Lab Sample ID: 890-1437-1

Date Collected: 10/14/21 12:10

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/22/21 18:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 14:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9775	10/18/21 14:38	CA	XEN MID
Soluble	Analysis	300.0		1			10150	10/22/21 09:50	CH	XEN MID

Client Sample ID: C-1151

Lab Sample ID: 890-1437-2

Date Collected: 10/14/21 12:11

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/22/21 18:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 16:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9775	10/18/21 14:38	CA	XEN MID
Soluble	Analysis	300.0		1			10150	10/22/21 09:58	CH	XEN MID

Client Sample ID: C-1152

Lab Sample ID: 890-1437-3

Date Collected: 10/14/21 12:12

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/22/21 19:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9775	10/18/21 14:38	CA	XEN MID
Soluble	Analysis	300.0		1			10150	10/22/21 10:19	CH	XEN MID

Client Sample ID: C-1153

Lab Sample ID: 890-1437-4

Date Collected: 10/14/21 12:13

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/22/21 19:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1153**Lab Sample ID: 890-1437-4****Date Collected: 10/14/21 12:13****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 16:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9775	10/18/21 14:38	CA	XEN MID
Soluble	Analysis	300.0		1			10150	10/22/21 10:26	CH	XEN MID

Client Sample ID: C-1154**Lab Sample ID: 890-1437-5****Date Collected: 10/14/21 12:14****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/22/21 20:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 17:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9775	10/18/21 14:38	CA	XEN MID
Soluble	Analysis	300.0		1			10150	10/22/21 10:48	CH	XEN MID

Client Sample ID: C-1155**Lab Sample ID: 890-1437-6****Date Collected: 10/14/21 12:15****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/22/21 20:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 17:40	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9775	10/18/21 14:38	CA	XEN MID
Soluble	Analysis	300.0		1			10150	10/22/21 10:55	CH	XEN MID

Client Sample ID: C-1156**Lab Sample ID: 890-1437-7****Date Collected: 10/14/21 12:16****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/22/21 20:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 18:01	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1156**Lab Sample ID: 890-1437-7****Date Collected: 10/14/21 12:16****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	9775	10/18/21 14:38	CA	XEN MID
Soluble	Analysis	300.0		1			10150	10/22/21 11:02	CH	XEN MID

Client Sample ID: C-1157**Lab Sample ID: 890-1437-8****Date Collected: 10/14/21 12:17****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/22/21 21:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 18:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 17:35	CH	XEN MID

Client Sample ID: C-1158**Lab Sample ID: 890-1437-9****Date Collected: 10/14/21 12:18****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/22/21 21:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 18:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 17:54	CH	XEN MID

Client Sample ID: C-1159**Lab Sample ID: 890-1437-10****Date Collected: 10/14/21 12:19****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/22/21 21:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 19:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 18:00	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1160

Lab Sample ID: 890-1437-11

Date Collected: 10/14/21 12:20

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/22/21 23:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 19:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 18:07	CH	XEN MID

Client Sample ID: C-1161

Lab Sample ID: 890-1437-12

Date Collected: 10/14/21 12:21

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/22/21 23:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 20:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 18:13	CH	XEN MID

Client Sample ID: C-1162

Lab Sample ID: 890-1437-13

Date Collected: 10/14/21 12:22

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 00:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 20:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 18:19	CH	XEN MID

Client Sample ID: C-1163

Lab Sample ID: 890-1437-14

Date Collected: 10/14/21 12:23

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 00:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1163

Lab Sample ID: 890-1437-14

Date Collected: 10/14/21 12:23

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 20:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 18:26	CH	XEN MID

Client Sample ID: C-1164

Lab Sample ID: 890-1437-15

Date Collected: 10/14/21 12:24

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 00:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 21:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 18:51	CH	XEN MID

Client Sample ID: C-1165

Lab Sample ID: 890-1437-16

Date Collected: 10/14/21 12:25

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 01:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 21:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 19:10	CH	XEN MID

Client Sample ID: C-1166

Lab Sample ID: 890-1437-17

Date Collected: 10/14/21 12:26

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 01:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 21:46	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1166**Lab Sample ID: 890-1437-17****Date Collected: 10/14/21 12:26****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 19:16	CH	XEN MID

Client Sample ID: C-1167**Lab Sample ID: 890-1437-18****Date Collected: 10/14/21 12:27****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 01:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 22:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 19:22	CH	XEN MID

Client Sample ID: C-1168**Lab Sample ID: 890-1437-19****Date Collected: 10/14/21 12:28****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 02:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/22/21 22:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 19:29	CH	XEN MID

Client Sample ID: C-1169**Lab Sample ID: 890-1437-20****Date Collected: 10/14/21 12:29****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9958	10/20/21 11:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 02:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10225	10/22/21 11:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10161	10/23/21 08:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 19:35	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1170

Lab Sample ID: 890-1437-21

Date Collected: 10/14/21 12:30

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 06:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 12:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 19:41	CH	XEN MID

Client Sample ID: C-1171

Lab Sample ID: 890-1437-22

Date Collected: 10/14/21 12:31

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 06:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 15:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10447	10/25/21 14:48	CH	XEN MID
Soluble	Analysis	300.0		5			10433	10/25/21 15:56	SC	XEN MID

Client Sample ID: C-1172

Lab Sample ID: 890-1437-23

Date Collected: 10/14/21 12:32

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 06:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 13:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9755	10/18/21 14:16	CA	XEN MID
Soluble	Analysis	300.0		1			10000	10/20/21 19:48	CH	XEN MID

Client Sample ID: C-1173

Lab Sample ID: 890-1437-24

Date Collected: 10/14/21 12:33

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 07:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1173

Lab Sample ID: 890-1437-24

Date Collected: 10/14/21 12:33

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 14:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 15:04	CH	XEN MID

Client Sample ID: C-1174

Lab Sample ID: 890-1437-25

Date Collected: 10/14/21 12:34

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 07:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 14:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 15:25	CH	XEN MID

Client Sample ID: C-1175

Lab Sample ID: 890-1437-26

Date Collected: 10/14/21 12:35

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 07:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 14:43	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		5			10157	10/23/21 20:47	CH	XEN MID

Client Sample ID: C-1176

Lab Sample ID: 890-1437-27

Date Collected: 10/14/21 12:36

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 08:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 15:04	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1176**Lab Sample ID: 890-1437-27****Date Collected: 10/14/21 12:36****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 15:39	CH	XEN MID

Client Sample ID: C-1177**Lab Sample ID: 890-1437-28****Date Collected: 10/14/21 12:37****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 08:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 15:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 15:46	CH	XEN MID

Client Sample ID: C-1178**Lab Sample ID: 890-1437-29****Date Collected: 10/14/21 12:38****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 08:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 16:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 16:07	CH	XEN MID

Client Sample ID: C-1179**Lab Sample ID: 890-1437-30****Date Collected: 10/14/21 12:39****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 09:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 16:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 16:14	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1180

Lab Sample ID: 890-1437-31

Date Collected: 10/14/21 12:40

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 11:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 17:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 16:20	CH	XEN MID

Client Sample ID: C-1181

Lab Sample ID: 890-1437-32

Date Collected: 10/14/21 12:41

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 11:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 17:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 16:28	CH	XEN MID

Client Sample ID: C-1182

Lab Sample ID: 890-1437-33

Date Collected: 10/14/21 12:42

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 11:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 17:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 16:34	CH	XEN MID

Client Sample ID: C-1183

Lab Sample ID: 890-1437-34

Date Collected: 10/14/21 12:43

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 12:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1183**Lab Sample ID: 890-1437-34****Date Collected: 10/14/21 12:43****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 18:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 16:41	CH	XEN MID

Client Sample ID: C-1184**Lab Sample ID: 890-1437-35****Date Collected: 10/14/21 12:44****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 12:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 18:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 17:02	CH	XEN MID

Client Sample ID: C-1185**Lab Sample ID: 890-1437-36****Date Collected: 10/14/21 12:45****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 12:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 18:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 17:09	CH	XEN MID

Client Sample ID: C-1186**Lab Sample ID: 890-1437-37****Date Collected: 10/14/21 12:46****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 13:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 19:19	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1186**Lab Sample ID: 890-1437-37****Date Collected: 10/14/21 12:46****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 17:30	CH	XEN MID

Client Sample ID: C-1187**Lab Sample ID: 890-1437-38****Date Collected: 10/14/21 12:47****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 13:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 19:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 17:37	CH	XEN MID

Client Sample ID: C-1188**Lab Sample ID: 890-1437-39****Date Collected: 10/14/21 12:48****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 13:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 20:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 17:44	CH	XEN MID

Client Sample ID: C-1189**Lab Sample ID: 890-1437-40****Date Collected: 10/14/21 12:49****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9960	10/20/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10201	10/23/21 14:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10254	10/22/21 12:49	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10309	10/23/21 20:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		5			10157	10/22/21 17:50	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1190

Lab Sample ID: 890-1437-41

Date Collected: 10/14/21 12:50

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	10082	10/21/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10086	10/22/21 09:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10256	10/22/21 12:52	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10311	10/23/21 22:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 17:57	CH	XEN MID

Client Sample ID: C-1191

Lab Sample ID: 890-1437-42

Date Collected: 10/14/21 12:51

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10082	10/21/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10086	10/22/21 09:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10256	10/22/21 12:52	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10311	10/23/21 23:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 18:04	CH	XEN MID

Client Sample ID: C-1192

Lab Sample ID: 890-1437-43

Date Collected: 10/14/21 12:52

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10011	10/20/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10332	10/24/21 17:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10256	10/22/21 12:52	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10311	10/23/21 23:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9760	10/18/21 14:19	CA	XEN MID
Soluble	Analysis	300.0		1			10157	10/22/21 18:11	CH	XEN MID

Client Sample ID: C-1193

Lab Sample ID: 890-1437-44

Date Collected: 10/14/21 12:53

Matrix: Solid

Date Received: 10/14/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	10011	10/20/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10332	10/24/21 17:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1193**Lab Sample ID: 890-1437-44****Date Collected: 10/14/21 12:53****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10256	10/22/21 12:52	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10311	10/24/21 00:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9767	10/18/21 14:24	CA	XEN MID
Soluble	Analysis	300.0		1			10156	10/22/21 13:42	CH	XEN MID

Client Sample ID: C-1194**Lab Sample ID: 890-1437-45****Date Collected: 10/14/21 12:54****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10011	10/20/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10332	10/24/21 17:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10136	10/21/21 14:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10053	10/22/21 10:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9767	10/18/21 14:24	CA	XEN MID
Soluble	Analysis	300.0		1			10156	10/22/21 13:49	CH	XEN MID

Client Sample ID: C-1195**Lab Sample ID: 890-1437-46****Date Collected: 10/14/21 00:00****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	10011	10/20/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10332	10/24/21 18:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10136	10/21/21 14:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10053	10/22/21 10:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9767	10/18/21 14:24	CA	XEN MID
Soluble	Analysis	300.0		1			10156	10/22/21 13:55	CH	XEN MID

Client Sample ID: C-1196**Lab Sample ID: 890-1437-47****Date Collected: 10/14/21 00:00****Matrix: Solid****Date Received: 10/14/21 15:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10011	10/20/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10332	10/24/21 18:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10531	10/25/21 19:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10136	10/21/21 14:51	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10053	10/22/21 10:43	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Client Sample ID: C-1196
Date Collected: 10/14/21 00:00
Date Received: 10/14/21 15:35

Lab Sample ID: 890-1437-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	9767	10/18/21 14:24	CA	XEN MID
Soluble	Analysis	300.0		1			10156	10/22/21 14:02	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

- 1
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Method Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1437-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1437-1	C-1150	Solid	10/14/21 12:10	10/14/21 15:35
890-1437-2	C-1151	Solid	10/14/21 12:11	10/14/21 15:35
890-1437-3	C-1152	Solid	10/14/21 12:12	10/14/21 15:35
890-1437-4	C-1153	Solid	10/14/21 12:13	10/14/21 15:35
890-1437-5	C-1154	Solid	10/14/21 12:14	10/14/21 15:35
890-1437-6	C-1155	Solid	10/14/21 12:15	10/14/21 15:35
890-1437-7	C-1156	Solid	10/14/21 12:16	10/14/21 15:35
890-1437-8	C-1157	Solid	10/14/21 12:17	10/14/21 15:35
890-1437-9	C-1158	Solid	10/14/21 12:18	10/14/21 15:35
890-1437-10	C-1159	Solid	10/14/21 12:19	10/14/21 15:35
890-1437-11	C-1160	Solid	10/14/21 12:20	10/14/21 15:35
890-1437-12	C-1161	Solid	10/14/21 12:21	10/14/21 15:35
890-1437-13	C-1162	Solid	10/14/21 12:22	10/14/21 15:35
890-1437-14	C-1163	Solid	10/14/21 12:23	10/14/21 15:35
890-1437-15	C-1164	Solid	10/14/21 12:24	10/14/21 15:35
890-1437-16	C-1165	Solid	10/14/21 12:25	10/14/21 15:35
890-1437-17	C-1166	Solid	10/14/21 12:26	10/14/21 15:35
890-1437-18	C-1167	Solid	10/14/21 12:27	10/14/21 15:35
890-1437-19	C-1168	Solid	10/14/21 12:28	10/14/21 15:35
890-1437-20	C-1169	Solid	10/14/21 12:29	10/14/21 15:35
890-1437-21	C-1170	Solid	10/14/21 12:30	10/14/21 15:35
890-1437-22	C-1171	Solid	10/14/21 12:31	10/14/21 15:35
890-1437-23	C-1172	Solid	10/14/21 12:32	10/14/21 15:35
890-1437-24	C-1173	Solid	10/14/21 12:33	10/14/21 15:35
890-1437-25	C-1174	Solid	10/14/21 12:34	10/14/21 15:35
890-1437-26	C-1175	Solid	10/14/21 12:35	10/14/21 15:35
890-1437-27	C-1176	Solid	10/14/21 12:36	10/14/21 15:35
890-1437-28	C-1177	Solid	10/14/21 12:37	10/14/21 15:35
890-1437-29	C-1178	Solid	10/14/21 12:38	10/14/21 15:35
890-1437-30	C-1179	Solid	10/14/21 12:39	10/14/21 15:35
890-1437-31	C-1180	Solid	10/14/21 12:40	10/14/21 15:35
890-1437-32	C-1181	Solid	10/14/21 12:41	10/14/21 15:35
890-1437-33	C-1182	Solid	10/14/21 12:42	10/14/21 15:35
890-1437-34	C-1183	Solid	10/14/21 12:43	10/14/21 15:35
890-1437-35	C-1184	Solid	10/14/21 12:44	10/14/21 15:35
890-1437-36	C-1185	Solid	10/14/21 12:45	10/14/21 15:35
890-1437-37	C-1186	Solid	10/14/21 12:46	10/14/21 15:35
890-1437-38	C-1187	Solid	10/14/21 12:47	10/14/21 15:35
890-1437-39	C-1188	Solid	10/14/21 12:48	10/14/21 15:35
890-1437-40	C-1189	Solid	10/14/21 12:49	10/14/21 15:35
890-1437-41	C-1190	Solid	10/14/21 12:50	10/14/21 15:35
890-1437-42	C-1191	Solid	10/14/21 12:51	10/14/21 15:35
890-1437-43	C-1192	Solid	10/14/21 12:52	10/14/21 15:35
890-1437-44	C-1193	Solid	10/14/21 12:53	10/14/21 15:35
890-1437-45	C-1194	Solid	10/14/21 12:54	10/14/21 15:35
890-1437-46	C-1195	Solid	10/14/21 00:00	10/14/21 15:35
890-1437-47	C-1196	Solid	10/14/21 00:00	10/14/21 15:35

Varson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste 202
Midland, TX 79701
432 687-0901

Data Reported to

DATE: 10/14/2021 PAGE 1 OF 4
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmer Ast
LAI PROJECT #: 21-0105-01 COLLECTOR: B54

CHAIN-OF-CUSTODY

No. 2141

TIME ZONE Time zone/State	TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
									HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE			
C-1150					10/14/21	1210	S	1							
C-1151						1211									
C-1152						1212									
C-1153						1213									
C-1154						1214									
C-1155						1215									
C-1156						1216									
C-1157						1217									
C-1158						1218									
C-1159						1219									
C-1160						1220									
C-1161						1221									
C-1162						1222									
C-1163						1223									
C-1164						1224									
TOTAL	15														

RELINQUISHED BY (Signature) [Signature] DATE/TIME 10/14/21 3:35 RECEIVED BY (Signature) [Signature]

RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____

RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____

LABORATORY X111C0

TURN AROUND TIME

NORMAL ☒ 1 DAY ☐

2 DAY ☐ OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP 4.0 THERM# T-M-N-001

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL # _____

☒ HAND DELIVERED



890-1437 Chain of Custody

Hanson & Associates, Inc.

Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432.687.0901

DATE: 10/14/2021

PO#: _____

PROJECT LOCATION OR NAME: Palmview 1st

LAI PROJECT #: 21-0105-02

COLLECTOR: TDS4

LAB WORK ORDER#: _____

PAGE 2 OF 4

Data Reported to _____

TIME ZONE Time zone/State	TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	TURN AROUND TIME	LABORATORY USE ONLY:
									HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			
MST/MT															
C-1165					10/14/21	1225	5	1							
C-1166						1226									
C-1167						1227									
C-1168						1228									
C-1169						1229									
C-1170						1230									
C-1171						1231									
C-1172						1232									
C-1173						1233									
C-1174						1234									
C-1175						1235									
C-1176						1236									
C-1177						1237									
C-1178						1238									
C-1179						1239									
TOTAL 15															

RELINQUISHED BY (Signature) _____ DATE/TIME 10/14/21 3:35 RECEIVED BY (Signature) _____

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RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____

LABORATORY Yanco

TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐

LABORATORY USE ONLY: RECEIVING TEMP 4.0 THERM# T-11111111

CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED

CARRIER BILL # _____

MAND DELIVERED

Carson & Associates, Inc.
Environmental Consultants

507 N. Mainfield, Ste 202
Midland, TX 79701
432.687.0901

Data Reported to

DATE: 10/14/2021 PAGE 3 OF 4
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmio Ast
LAI PROJECT #: 21-0105-02 COLLECTOR: bsq

No. 2143
CHAIN-OF-CUSTODY

TIME ZONE Time zone/State	TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
									HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			UNPRESERVED
C-1180					10/14/21	1240	S	1							
C-1181						1241									
C-1182						1242									
C-1183						1243									
C-1184						1244									
C-1185						1245									
C-1186						1246									
C-1187						1247									
C-1188						1248									
C-1189						1249									
C-1190						1250									
C-1191						1251									
C-1192						1252									
C-1193						1253									
C-1194						1254									
TOTAL	15														

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
<i>[Signature]</i>	10/14/21 3:36	<i>[Signature]</i>	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
LABORATORY	X	Y	Y

TURN AROUND TIME	LABORATORY USE ONLY:
NORMAL ☒	RECEIVING TEMP: <u>4.0</u> THERM# <u>T-111111</u>
1 DAY ☐	CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
2 DAY ☐	CARRIER BILL # _____
OTHER ☐	☒ HAND DELIVERED

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No. 2144

CHAIN-OF-CUSTODY



507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 10/14/2021 PAGE 4 OF 4
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmview 145r
LAI PROJECT #: 21-0105-21 COLLECTOR: DS

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄

NaOH

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX

MTBE

TPH 418

TPH 1005

TPH 1006

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PESTICIDES

TCDF - PCBs

TCDF - METALS (RCRA)

TOTAL PEST

LEAD - TOTAL

RCI

TDS

PH

EXPLOSIVES

CHLORIDE

ANIONS

ALKALINITY

FIELD NOTES

HOLDPAH

TCLP VOC

TCLP HERB

TCLP PEST

TCLP METALS (RCRA)

TCLP TOX

TCLP TSS

TCLP % MOISTURE

TCLP CYANIDE

TCLP CHROMIUM

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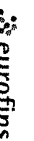
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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



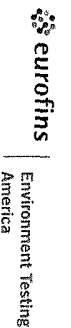
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No					
Client Contact:	Phone	Taylor Holly	State of Origin:	Page 1 of 6	890-465-1					
Shipping/Receiving		E-Mail	holly.taylor@eurofinset.com	Accreditations Required (See note):	Job #					
Company			NE LAP - Louisiana NE LAP - Texas		890-1437-1					
Address	Due Date Requested:									
121 W Florida Ave	10/20/2021									
City	TAT Requested (days):									
Midland										
State Zip:										
TX, 79701										
Phone	PO #									
432-704-5440(Tel)										
Email	WO #									
Project Name	Project #									
PALMIO AST	89000025									
Site:	SSOW #									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab, BT=Tissue, A=Air)	Matrix (W=water, S=solid, O=owasol, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
C-1150 (890-1437-1)	10/14/21	12 10	Mountain	Solid		X	X	X	X	
C-1151 (890-1437-2)	10/14/21	12 11	Mountain	Solid		X	X	X	X	
C-1152 (890-1437-3)	10/14/21	12 12	Mountain	Solid		X	X	X	X	
C-1153 (890-1437-4)	10/14/21	12 13	Mountain	Solid		X	X	X	X	
C-1154 (890-1437-5)	10/14/21	12 14	Mountain	Solid		X	X	X	X	
C-1155 (890-1437-6)	10/14/21	12 15	Mountain	Solid		X	X	X	X	
C-1156 (890-1437-7)	10/14/21	12 16	Mountain	Solid		X	X	X	X	
C-1157 (890-1437-8)	10/14/21	12 17	Mountain	Solid		X	X	X	X	
C-1158 (890-1437-9)	10/14/21	12 18	Mountain	Solid		X	X	X	X	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testing, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.										
Possible Hazard Identification Unconfirmed Deliverable Requested I II III IV Other (Specify) Primary Deliverable Rank 2 Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months										
Empty Kit Relinquished by	Date	Time	Method of Shipment:							
Relinquished by	Date/Time	Company	Received by	Date/Time	Company					
Relinquished by	Date/Time	Company	Received by	Date/Time	Company					
Relinquished by	Date/Time	Company	Received by	Date/Time	Company					
Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks								
Δ Yes Δ No										



Eurofins Xenco, Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

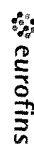


Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No									
Client Contact:	Phone		Taylor Holly		890-465 2									
Shipping/Receiving	E-Mail:		holly.taylor@eurofinsnet.com	State of Origin	Page 2 of 6									
Company				New Mexico										
Eurofins Xenco														
Address	Due Date Requested		Accreditations Required (See note)		Job #:									
1211 W Florida Ave	10/20/2021		NECLAP - Louisiana NECLAP - Texas		890-1437 1									
City	TAT Requested (days)													
Midland														
State Zip														
TX 79701														
Phone	PO #													
432-704-5440(Tel)														
Email	WO #													
Project Name:	Project #:													
PALMO AST	89000025													
Site	SSOW#													
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=overhead, BT=Tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5036FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
C-1159 (890-1437-10)		10/14/21	12 19	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1160 (890-1437-11)		10/14/21	12 20	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1161 (890-1437-12)		10/14/21	12 21	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1162 (890-1437-13)		10/14/21	12 22	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1163 (890-1437-14)		10/14/21	12 23	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1164 (890-1437-15)		10/14/21	12 24	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1165 (890-1437-16)		10/14/21	12 25	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1166 (890-1437-17)		10/14/21	12 26	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1167 (890-1437-18)		10/14/21	12 27	Mountain	Solid	X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out sub-contract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the sample must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I, II, III, IV Other (specify) Primary Deliverable Rank 2														
Empty Kit Relinquished by														
Relinquished by <i>N. Davis</i> Date/Time 10/15/21 Company														
Relinquished by Date/Time Company														
Relinquished by Date/Time Company														
Custody Seals Intact: Custody Seal No Cooler Temperature(s) °C and Other Remarks.														

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

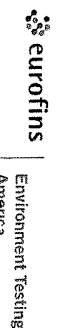
Client Information (Sub Contract Lab)		Sampler	Lab P/N	Carrier Tracking No(s)	COC No
Client Contact: Shipping/Receiving		Phone	Taylor Holly		890-465 3
Company: Eurofins Xenco		E-Mail	holly.taylor@eurofinsnet.com	State of Origin	Page 3 of 6
Address: 1211 W Florida Ave		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #	890-1437-1
City: Midland		Due Date Requested:	Analysis Requested		
State Zip: TX 79701		TAAT Requested (days):			
Phone: 432-704-5440(Tel)		PO #			
Email: 432-704-5440(Tel)		WO #			
Project Name: PALMCO AST		Project #:			
Site: SSOW#		89000025			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=biological, A=air)
C-1168 (890-1437-19)	10/14/21	12 28	Mountain	Solid	Solid
C-1169 (890-1437-20)	10/14/21	12 29	Mountain	Solid	Solid
C-1170 (890-1437-21)	10/14/21	12 30	Mountain	Solid	Solid
C-1171 (890-1437-22)	10/14/21	12 31	Mountain	Solid	Solid
C-1172 (890-1437-23)	10/14/21	12 32	Mountain	Solid	Solid
C-1173 (890-1437-24)	10/14/21	12 33	Mountain	Solid	Solid
C-1174 (890-1437-25)	10/14/21	12 34	Mountain	Solid	Solid
C-1175 (890-1437-26)	10/14/21	12 35	Mountain	Solid	Solid
C-1176 (890-1437-27)	10/14/21	12 36	Mountain	Solid	Solid
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/assessments, being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank 2					
Empty Kit Relinquished by					
Relinquished by: <i>[Signature]</i> Date/Time: <i>10/15/21</i> Date: <i>10/15/21</i> Time: <i>10:15</i> Company: <i>[Blank]</i> Received by: <i>[Signature]</i> Date/Time: <i>[Blank]</i> Date/Time: <i>[Blank]</i> Company: <i>[Blank]</i>					
Relinquished by: <i>[Blank]</i> Date/Time: <i>[Blank]</i> Company: <i>[Blank]</i> Received by: <i>[Blank]</i> Date/Time: <i>[Blank]</i> Date/Time: <i>[Blank]</i> Company: <i>[Blank]</i>					
Custody Seals Intact: <i>[Blank]</i> Custody Seal No: <i>[Blank]</i>					
Cooler Temperature(s) °C and Other Remarks: <i>[Blank]</i>					

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact:	Phone	Taylor Holly			890-465 4
Shipping/Receiving		E-Mail	holly.taylor@eurofins.com	State of Origin	Page 4 of 6
Company			Accelerations Required (See note)	New Mexico	
Eurofins Xenco			NECLAP - Louisiana NECLAP	Texas	Job #:
Address	Due Date Requested				890-1437-1
1211 W Florida Ave	10/20/2021				
City	TAT Requested (days)				
Midland					
State Zip					
TX 79701					
Phone	PO #				
432-704-5440(Tel)					
Email	WO #				
Project Name	Project #				
PALMIO AST	89000025				
Site	SSOW#				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other, BT=tissue A=lab)
C-1177 (890-1437-28)		10/14/21	12:37	Mountain	Solid
C-1178 (890-1437-29)		10/14/21	12:38	Mountain	Solid
C-1179 (890-1437-30)		10/14/21	12:39	Mountain	Solid
C-1180 (890-1437-31)		10/14/21	12:40	Mountain	Solid
C-1181 (890-1437-32)		10/14/21	12:41	Mountain	Solid
C-1182 (890-1437-33)		10/14/21	12:42	Mountain	Solid
C-1183 (890-1437-34)		10/14/21	12:43	Mountain	Solid
C-1184 (890-1437-35)		10/14/21	12:44	Mountain	Solid
C-1185 (890-1437-36)		10/14/21	12:45	Mountain	Solid
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank 2		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Empty Kit Relinquished by		Date	Time	Method of Shipment:	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Custody Seals Intact.	Custody Seal No	Cooler Temperature(s) °C and Other Remarks			
Δ Yes Δ No					

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



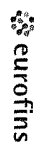
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking Note(s)	COC No									
Client Contact	Phone	Taylor Holly			890-465 5									
Shipping/Receiving		E-Mail	holly.taylor@eurofins.com	State of Origin	Page 5 of 6									
Company		Accreditations Required (See note)	NELAP Louisiana NELAP - Texas	New Mexico	Job #									
Eurofins Xenco					890-1437 1									
Address	Due Date Requested	Analysis Requested		Preservation Codes										
1211 W Florida Ave	10/20/2021			A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O Asn802 P Na2SO4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecyl/drate U Acetone V MCAA W pH 4.5 Z other (specify)										
City	TAT Requested (days):													
Midland														
State Zip	PO #													
TX 79701														
Phone	WO #													
432-704-5440(Tel)														
Email	Project #													
	89000025													
Project Name	SSOW#													
PALMO AST														
Site														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (G=comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=BT-tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX - LL	Total BTEX_GCV	Total Number of containers	Special Instructions/Note
C-1186 (890-1437-37)	10/14/21	12 46	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1187 (890-1437-38)	10/14/21	12 47	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1188 (890-1437-39)	10/14/21	12 48	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1189 (890-1437-40)	10/14/21	12 49	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1190 (890-1437-41)	10/14/21	12 50	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1191 (890-1437-42)	10/14/21	12 51	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1192 (890-1437-43)	10/14/21	12 52	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1193 (890-1437-44)	10/14/21	12 53	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1194 (890-1437-45)	10/14/21	12 54	Mountain	Solid		X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out-of-shipment. If the laboratory does not currently perform an accreditation in the State of Origin, it is stated above for analysis/matrix being analyzed. The samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I II III IV Other (specify)														
Primary Deliverable Rank 2														
Special Instructions/QC Requirements														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
Return To Client Disposal By Lab Archive For Months														
Empty Kit Relinquished by														
Date/Time														
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Relinquished by														
Date/Time														
Custody Seals Intact: Custody Seal No														
Cooler Temperature(s) °C and Other Remarks														

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1437-1

SDG Number: 21-0105-02

Login Number: 1437

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1437-1

SDG Number: 21-0105-02

Login Number: 1437

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 10/18/21 08:10 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5/0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1440-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST
Revision: 1

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/26/2021 11:07:32 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1440-1
SDG: 21-0105-02

Table of Contents

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Job ID: 890-1440-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1440-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 10/25/2021. The report (revision 1) is being revised to attach the original COC per Pat Larson (email)..

Receipt

The samples were received on 10/15/2021 11:43 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8° C.

Receipt Exceptions

The report was revised to attach the original COC per Pat Larson (email).

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-9967 and analytical batch 880-10219 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Client Sample ID: C-40 4.1'

Lab Sample ID: 890-1440-1

Date Collected: 10/15/21 09:30

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/20/21 13:46	10/22/21 23:21	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/20/21 13:46	10/22/21 23:21	1
Ethylbenzene	0.00884		0.00198	mg/Kg		10/20/21 13:46	10/22/21 23:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/20/21 13:46	10/22/21 23:21	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/20/21 13:46	10/22/21 23:21	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/20/21 13:46	10/22/21 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/20/21 13:46	10/22/21 23:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/20/21 13:46	10/22/21 23:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00884		0.00396	mg/Kg			10/22/21 12:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.9		49.9	mg/Kg			10/22/21 09:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 08:52	10/22/21 21:06	1
Diesel Range Organics (Over C10-C28)	81.9		49.9	mg/Kg		10/21/21 08:52	10/22/21 21:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 08:52	10/22/21 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	10/21/21 08:52	10/22/21 21:06	1
o-Terphenyl	118		70 - 130	10/21/21 08:52	10/22/21 21:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	377		5.01	mg/Kg			10/22/21 18:02	1

Client Sample ID: C-41 4.1'

Lab Sample ID: 890-1440-2

Date Collected: 10/15/21 09:35

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/20/21 13:46	10/22/21 23:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/20/21 13:46	10/22/21 23:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/20/21 13:46	10/22/21 23:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/20/21 13:46	10/22/21 23:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/20/21 13:46	10/22/21 23:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/20/21 13:46	10/22/21 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	10/20/21 13:46	10/22/21 23:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Client Sample ID: C-41 4.1'

Lab Sample ID: 890-1440-2

Date Collected: 10/15/21 09:35

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	10/20/21 13:46	10/22/21 23:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/22/21 12:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 15:23	10/22/21 17:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0	mg/Kg		10/21/21 15:23	10/22/21 17:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 15:23	10/22/21 17:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane						10/21/21 15:23	10/22/21 17:42	1
o-Terphenyl						10/21/21 15:23	10/22/21 17:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		4.98	mg/Kg			10/22/21 18:09	1

Client Sample ID: C-44 4.1'

Lab Sample ID: 890-1440-3

Date Collected: 10/15/21 09:40

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/20/21 13:46	10/23/21 00:03	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/20/21 13:46	10/23/21 00:03	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/20/21 13:46	10/23/21 00:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/20/21 13:46	10/23/21 00:03	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/20/21 13:46	10/23/21 00:03	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/20/21 13:46	10/23/21 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/20/21 13:46	10/23/21 00:03	1
1,4-Difluorobenzene (Surr)	109		70 - 130	10/20/21 13:46	10/23/21 00:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/22/21 12:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Client Sample ID: C-44 4.1'

Lab Sample ID: 890-1440-3

Date Collected: 10/15/21 09:40

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 15:23	10/22/21 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9	mg/Kg		10/21/21 15:23	10/22/21 18:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 15:23	10/22/21 18:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane						10/21/21 15:23	10/22/21 18:03	1
o-Terphenyl						10/21/21 15:23	10/22/21 18:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	699		4.97	mg/Kg			10/22/21 18:16	1

Client Sample ID: C-46 4.1'

Lab Sample ID: 890-1440-4

Date Collected: 10/15/21 09:45

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 13:46	10/23/21 00:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 13:46	10/23/21 00:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 13:46	10/23/21 00:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/20/21 13:46	10/23/21 00:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 13:46	10/23/21 00:23	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/20/21 13:46	10/23/21 00:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			10/20/21 13:46	10/23/21 00:23	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/20/21 13:46	10/23/21 00:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/22/21 12:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/21/21 16:22	10/22/21 15:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/21/21 16:22	10/22/21 15:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/21/21 16:22	10/22/21 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/21/21 16:22	10/22/21 15:35	1
o-Terphenyl	122		70 - 130			10/21/21 16:22	10/22/21 15:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Client Sample ID: C-46 4.1'

Lab Sample ID: 890-1440-4

Date Collected: 10/15/21 09:45

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	251		4.95	mg/Kg			10/22/21 18:24	1

Client Sample ID: C-47 4.1'

Lab Sample ID: 890-1440-5

Date Collected: 10/15/21 09:50

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 13:46	10/23/21 00:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 13:46	10/23/21 00:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 13:46	10/23/21 00:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 13:46	10/23/21 00:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 13:46	10/23/21 00:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 13:46	10/23/21 00:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			10/20/21 13:46	10/23/21 00:44	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/20/21 13:46	10/23/21 00:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/22/21 12:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 16:22	10/22/21 15:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 16:22	10/22/21 15:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 16:22	10/22/21 15:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/21/21 16:22	10/22/21 15:56	1
o-Terphenyl	127		70 - 130			10/21/21 16:22	10/22/21 15:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.9		4.96	mg/Kg			10/22/21 18:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Client Sample ID: C-48 4.1'

Lab Sample ID: 890-1440-6

Date Collected: 10/15/21 09:55

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 13:46	10/23/21 01:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 13:46	10/23/21 01:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 13:46	10/23/21 01:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 13:46	10/23/21 01:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 13:46	10/23/21 01:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 13:46	10/23/21 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/20/21 13:46	10/23/21 01:05	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/20/21 13:46	10/23/21 01:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/22/21 12:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 16:22	10/22/21 16:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 16:22	10/22/21 16:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 16:22	10/22/21 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	10/21/21 16:22	10/22/21 16:18	1
o-Terphenyl	122		70 - 130	10/21/21 16:22	10/22/21 16:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	223		5.00	mg/Kg			10/22/21 18:52	1

Client Sample ID: C-55 4.1'

Lab Sample ID: 890-1440-7

Date Collected: 10/15/21 10:00

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/20/21 13:46	10/23/21 01:25	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/20/21 13:46	10/23/21 01:25	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/20/21 13:46	10/23/21 01:25	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/20/21 13:46	10/23/21 01:25	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/20/21 13:46	10/23/21 01:25	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/20/21 13:46	10/23/21 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/20/21 13:46	10/23/21 01:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Client Sample ID: C-55 4.1'

Lab Sample ID: 890-1440-7

Date Collected: 10/15/21 10:00

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	10/20/21 13:46	10/23/21 01:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/22/21 12:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 19:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 19:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 19:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane						10/20/21 11:12	10/20/21 19:50	1
o-Terphenyl						10/20/21 11:12	10/20/21 19:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		5.00	mg/Kg			10/22/21 18:59	1

Client Sample ID: C-56 4.1'

Lab Sample ID: 890-1440-8

Date Collected: 10/15/21 10:05

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/20/21 13:46	10/23/21 01:46	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/20/21 13:46	10/23/21 01:46	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/20/21 13:46	10/23/21 01:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/20/21 13:46	10/23/21 01:46	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/20/21 13:46	10/23/21 01:46	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/20/21 13:46	10/23/21 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	10/20/21 13:46	10/23/21 01:46	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/20/21 13:46	10/23/21 01:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/22/21 12:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/21 16:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Client Sample ID: C-56 4.1'

Lab Sample ID: 890-1440-8

Date Collected: 10/15/21 10:05

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 20:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 20:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/20/21 11:12	10/20/21 20:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane						10/20/21 11:12	10/20/21 20:11	1
o-Terphenyl						10/20/21 11:12	10/20/21 20:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	707		5.04	mg/Kg			10/22/21 19:07	1

Client Sample ID: C-59 4.1'

Lab Sample ID: 890-1440-9

Date Collected: 10/15/21 10:10

Matrix: Solid

Date Received: 10/15/21 11:43

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 13:46	10/23/21 02:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 13:46	10/23/21 02:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 13:46	10/23/21 02:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 13:46	10/23/21 02:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 13:46	10/23/21 02:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 13:46	10/23/21 02:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			10/20/21 13:46	10/23/21 02:07	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/20/21 13:46	10/23/21 02:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/22/21 12:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/21/21 16:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 20:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 20:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 20:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane						10/20/21 11:12	10/20/21 20:32	1
o-Terphenyl						10/20/21 11:12	10/20/21 20:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Client Sample ID: C-59 4.1'
Date Collected: 10/15/21 10:10
Date Received: 10/15/21 11:43
Sample Depth: 4.1

Lab Sample ID: 890-1440-9
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		5.01	mg/Kg			10/22/21 19:14	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1440-1	C-40 4.1'	93	99
890-1440-2	C-41 4.1'	129	97
890-1440-3	C-44 4.1'	97	109
890-1440-4	C-46 4.1'	100	94
890-1440-5	C-47 4.1'	93	100
890-1440-6	C-48 4.1'	99	107
890-1440-7	C-55 4.1'	95	102
890-1440-8	C-56 4.1'	94	108
890-1440-9	C-59 4.1'	103	109
LCS 880-9996/1-A	Lab Control Sample	88	103
LCSD 880-9996/2-A	Lab Control Sample Dup	89	97
MB 880-10082/5-A	Method Blank	111	98
MB 880-9996/5-A	Method Blank	112	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1440-1	C-40 4.1'	111	118
890-1440-4	C-46 4.1'	108	122
890-1440-5	C-47 4.1'	111	127
890-1440-6	C-48 4.1'	108	122
LCS 880-10137/2-A	Lab Control Sample	117	112
LCSD 880-10146/2-A	Lab Control Sample	93	97
LCS 880-9959/2-A	Lab Control Sample	102	100
LCSD 880-10137/3-A	Lab Control Sample Dup	103	95
LCSD 880-10146/3-A	Lab Control Sample Dup	88	93
LCSD 880-9959/3-A	Lab Control Sample Dup	104	101
MB 880-10137/1-A	Method Blank	126	135 S1+
MB 880-10146/1-A	Method Blank	109	126
MB 880-9959/1-A	Method Blank	116	126
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
890-1440-2	C-41 4.1'		
890-1440-3	C-44 4.1'		
890-1440-7	C-55 4.1'		

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID		
890-1440-8	C-56 4.1'		
890-1440-9	C-59 4.1'		
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10082/5-A

Matrix: Solid

Analysis Batch: 10086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10082

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/21/21 13:00	10/22/21 07:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/21/21 13:00	10/22/21 07:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/21/21 13:00	10/22/21 07:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/21/21 13:00	10/22/21 07:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/21/21 13:00	10/22/21 07:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/21/21 13:00	10/22/21 07:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	10/21/21 13:00	10/22/21 07:08	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/21/21 13:00	10/22/21 07:08	1

Lab Sample ID: MB 880-9996/5-A

Matrix: Solid

Analysis Batch: 10086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9996

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 13:46	10/22/21 18:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 13:46	10/22/21 18:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 13:46	10/22/21 18:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 13:46	10/22/21 18:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 13:46	10/22/21 18:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 13:46	10/22/21 18:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/20/21 13:46	10/22/21 18:10	1
1,4-Difluorobenzene (Surr)	95		70 - 130	10/20/21 13:46	10/22/21 18:10	1

Lab Sample ID: LCS 880-9996/1-A

Matrix: Solid

Analysis Batch: 10086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9996

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09335		mg/Kg		93	70 - 130
Toluene	0.100	0.07413		mg/Kg		74	70 - 130
Ethylbenzene	0.100	0.07549		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	0.200	0.1443		mg/Kg		72	70 - 130
o-Xylene	0.100	0.07543		mg/Kg		75	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-9996/2-A

Matrix: Solid

Analysis Batch: 10086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9996

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08894		mg/Kg		89	70 - 130	5	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-9996/2-A

Matrix: Solid

Analysis Batch: 10086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9996

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.07668		mg/Kg		77	70 - 130	3	35
Ethylbenzene	0.100	0.07851		mg/Kg		79	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1511		mg/Kg		76	70 - 130	5	35
o-Xylene	0.100	0.07881		mg/Kg		79	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-10137/1-A

Matrix: Solid

Analysis Batch: 10165

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10137

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 15:22	10/22/21 09:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 15:22	10/22/21 09:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 15:22	10/22/21 09:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	10/21/21 15:22	10/22/21 09:08	1
o-Terphenyl	135	S1+	70 - 130	10/21/21 15:22	10/22/21 09:08	1

Lab Sample ID: LCS 880-10137/2-A

Matrix: Solid

Analysis Batch: 10165

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1063		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1333	*+	mg/Kg		133	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-10137/3-A

Matrix: Solid

Analysis Batch: 10165

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10137

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	896.8		mg/Kg		90	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	1093		mg/Kg		109	70 - 130	20	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-10137/3-A

Matrix: Solid

Analysis Batch: 10165

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10137

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: MB 880-10146/1-A

Matrix: Solid

Analysis Batch: 10163

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10146

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 16:21	10/22/21 09:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/21 16:21	10/22/21 09:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 16:21	10/22/21 09:08	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier					
1-Chlorooctane	109		70 - 130	10/21/21 16:21	10/22/21 09:08	1
o-Terphenyl	126		70 - 130	10/21/21 16:21	10/22/21 09:08	1

Lab Sample ID: LCS 880-10146/2-A

Matrix: Solid

Analysis Batch: 10163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	869.9		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	975.3		mg/Kg		98	70 - 130

Surrogate	LCS	LCS	Limits
%Recovery	Qualifier		
1-Chlorooctane	93		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-10146/3-A

Matrix: Solid

Analysis Batch: 10163

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10146

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	846.6		mg/Kg		85	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	931.2		mg/Kg		93	70 - 130	5	20

Surrogate	LCSD	LCSD	Limits
%Recovery	Qualifier		
1-Chlorooctane	88		70 - 130
o-Terphenyl	93		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-9959/1-A

Matrix: Solid

Analysis Batch: 9933

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9959

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 11:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 11:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/20/21 11:12	10/20/21 11:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			10/20/21 11:12	10/20/21 11:41	1
o-Terphenyl	126		70 - 130			10/20/21 11:12	10/20/21 11:41	1

Lab Sample ID: LCS 880-9959/2-A

Matrix: Solid

Analysis Batch: 9933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9959

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	948.6		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1131		mg/Kg		113	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	102		70 - 130				
o-Terphenyl	100		70 - 130				

Lab Sample ID: LCSD 880-9959/3-A

Matrix: Solid

Analysis Batch: 9933

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9959

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	940.1		mg/Kg		94	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1126		mg/Kg		113	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	101		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9967/1-A

Matrix: Solid

Analysis Batch: 10219

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/22/21 17:19	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-9967/2-A

Matrix: Solid

Analysis Batch: 10219

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	248.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-9967/3-A

Matrix: Solid

Analysis Batch: 10219

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.7		mg/Kg		100	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

GC VOA

Prep Batch: 9996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-1	C-40 4.1'	Total/NA	Solid	5035	
890-1440-2	C-41 4.1'	Total/NA	Solid	5035	
890-1440-3	C-44 4.1'	Total/NA	Solid	5035	
890-1440-4	C-46 4.1'	Total/NA	Solid	5035	
890-1440-5	C-47 4.1'	Total/NA	Solid	5035	
890-1440-6	C-48 4.1'	Total/NA	Solid	5035	
890-1440-7	C-55 4.1'	Total/NA	Solid	5035	
890-1440-8	C-56 4.1'	Total/NA	Solid	5035	
890-1440-9	C-59 4.1'	Total/NA	Solid	5035	
MB 880-9996/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9996/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9996/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 10082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10082/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 10086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-1	C-40 4.1'	Total/NA	Solid	8021B	9996
890-1440-2	C-41 4.1'	Total/NA	Solid	8021B	9996
890-1440-3	C-44 4.1'	Total/NA	Solid	8021B	9996
890-1440-4	C-46 4.1'	Total/NA	Solid	8021B	9996
890-1440-5	C-47 4.1'	Total/NA	Solid	8021B	9996
890-1440-6	C-48 4.1'	Total/NA	Solid	8021B	9996
890-1440-7	C-55 4.1'	Total/NA	Solid	8021B	9996
890-1440-8	C-56 4.1'	Total/NA	Solid	8021B	9996
890-1440-9	C-59 4.1'	Total/NA	Solid	8021B	9996
MB 880-10082/5-A	Method Blank	Total/NA	Solid	8021B	10082
MB 880-9996/5-A	Method Blank	Total/NA	Solid	8021B	9996
LCS 880-9996/1-A	Lab Control Sample	Total/NA	Solid	8021B	9996
LCSD 880-9996/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9996

Analysis Batch: 10147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-1	C-40 4.1'	Total/NA	Solid	Total BTEX	
890-1440-2	C-41 4.1'	Total/NA	Solid	Total BTEX	
890-1440-3	C-44 4.1'	Total/NA	Solid	Total BTEX	
890-1440-4	C-46 4.1'	Total/NA	Solid	Total BTEX	
890-1440-5	C-47 4.1'	Total/NA	Solid	Total BTEX	
890-1440-6	C-48 4.1'	Total/NA	Solid	Total BTEX	
890-1440-7	C-55 4.1'	Total/NA	Solid	Total BTEX	
890-1440-8	C-56 4.1'	Total/NA	Solid	Total BTEX	
890-1440-9	C-59 4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 9933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-7	C-55 4.1'	Total/NA	Solid	8015B NM	9959
890-1440-8	C-56 4.1'	Total/NA	Solid	8015B NM	9959

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 9933 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-9	C-59 4.1'	Total/NA	Solid	8015B NM	9959
MB 880-9959/1-A	Method Blank	Total/NA	Solid	8015B NM	9959
LCS 880-9959/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9959
LCSD 880-9959/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9959

Prep Batch: 9959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-7	C-55 4.1'	Total/NA	Solid	8015NM Prep	
890-1440-8	C-56 4.1'	Total/NA	Solid	8015NM Prep	
890-1440-9	C-59 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-9959/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9959/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9959/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 10059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-1	C-40 4.1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 10137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-2	C-41 4.1'	Total/NA	Solid	8015NM Prep	
890-1440-3	C-44 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-10137/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10137/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10137/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-2	C-41 4.1'	Total/NA	Solid	8015 NM	
890-1440-3	C-44 4.1'	Total/NA	Solid	8015 NM	
890-1440-4	C-46 4.1'	Total/NA	Solid	8015 NM	
890-1440-5	C-47 4.1'	Total/NA	Solid	8015 NM	
890-1440-6	C-48 4.1'	Total/NA	Solid	8015 NM	
890-1440-7	C-55 4.1'	Total/NA	Solid	8015 NM	
890-1440-8	C-56 4.1'	Total/NA	Solid	8015 NM	
890-1440-9	C-59 4.1'	Total/NA	Solid	8015 NM	

Prep Batch: 10146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-4	C-46 4.1'	Total/NA	Solid	8015NM Prep	
890-1440-5	C-47 4.1'	Total/NA	Solid	8015NM Prep	
890-1440-6	C-48 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-10146/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10146/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10146/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-1	C-40 4.1'	Total/NA	Solid	8015B NM	10059

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 10163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-4	C-46 4.1'	Total/NA	Solid	8015B NM	10146
890-1440-5	C-47 4.1'	Total/NA	Solid	8015B NM	10146
890-1440-6	C-48 4.1'	Total/NA	Solid	8015B NM	10146
MB 880-10146/1-A	Method Blank	Total/NA	Solid	8015B NM	10146
LCS 880-10146/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10146
LCSD 880-10146/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10146

Analysis Batch: 10165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-2	C-41 4.1'	Total/NA	Solid	8015B NM	10137
890-1440-3	C-44 4.1'	Total/NA	Solid	8015B NM	10137
MB 880-10137/1-A	Method Blank	Total/NA	Solid	8015B NM	10137
LCS 880-10137/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10137
LCSD 880-10137/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10137

Analysis Batch: 10196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-1	C-40 4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 9967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-1	C-40 4.1'	Soluble	Solid	DI Leach	
890-1440-2	C-41 4.1'	Soluble	Solid	DI Leach	
890-1440-3	C-44 4.1'	Soluble	Solid	DI Leach	
890-1440-4	C-46 4.1'	Soluble	Solid	DI Leach	
890-1440-5	C-47 4.1'	Soluble	Solid	DI Leach	
890-1440-6	C-48 4.1'	Soluble	Solid	DI Leach	
890-1440-7	C-55 4.1'	Soluble	Solid	DI Leach	
890-1440-8	C-56 4.1'	Soluble	Solid	DI Leach	
890-1440-9	C-59 4.1'	Soluble	Solid	DI Leach	
MB 880-9967/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9967/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9967/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 10219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1440-1	C-40 4.1'	Soluble	Solid	300.0	9967
890-1440-2	C-41 4.1'	Soluble	Solid	300.0	9967
890-1440-3	C-44 4.1'	Soluble	Solid	300.0	9967
890-1440-4	C-46 4.1'	Soluble	Solid	300.0	9967
890-1440-5	C-47 4.1'	Soluble	Solid	300.0	9967
890-1440-6	C-48 4.1'	Soluble	Solid	300.0	9967
890-1440-7	C-55 4.1'	Soluble	Solid	300.0	9967
890-1440-8	C-56 4.1'	Soluble	Solid	300.0	9967
890-1440-9	C-59 4.1'	Soluble	Solid	300.0	9967
MB 880-9967/1-A	Method Blank	Soluble	Solid	300.0	9967
LCS 880-9967/2-A	Lab Control Sample	Soluble	Solid	300.0	9967
LCSD 880-9967/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9967

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Client Sample ID: C-40 4.1'

Lab Sample ID: 890-1440-1

Date Collected: 10/15/21 09:30

Matrix: Solid

Date Received: 10/15/21 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9996	10/20/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10086	10/22/21 23:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/22/21 12:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10059	10/21/21 08:52	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			10159	10/22/21 21:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9967	10/20/21 12:09	CH	XEN MID
Soluble	Analysis	300.0		1			10219	10/22/21 18:02	CH	XEN MID

Client Sample ID: C-41 4.1'

Lab Sample ID: 890-1440-2

Date Collected: 10/15/21 09:35

Matrix: Solid

Date Received: 10/15/21 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9996	10/20/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10086	10/22/21 23:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/22/21 12:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10137	10/21/21 15:23	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10165	10/22/21 17:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9967	10/20/21 12:09	CH	XEN MID
Soluble	Analysis	300.0		1			10219	10/22/21 18:09	CH	XEN MID

Client Sample ID: C-44 4.1'

Lab Sample ID: 890-1440-3

Date Collected: 10/15/21 09:40

Matrix: Solid

Date Received: 10/15/21 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9996	10/20/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10086	10/23/21 00:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/22/21 12:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10137	10/21/21 15:23	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10165	10/22/21 18:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9967	10/20/21 12:09	CH	XEN MID
Soluble	Analysis	300.0		1			10219	10/22/21 18:16	CH	XEN MID

Client Sample ID: C-46 4.1'

Lab Sample ID: 890-1440-4

Date Collected: 10/15/21 09:45

Matrix: Solid

Date Received: 10/15/21 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9996	10/20/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10086	10/23/21 00:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/22/21 12:46	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Client Sample ID: C-46 4.1'

Date Collected: 10/15/21 09:45

Date Received: 10/15/21 11:43

Lab Sample ID: 890-1440-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10146	10/21/21 16:22	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10163	10/22/21 15:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9967	10/20/21 12:09	CH	XEN MID
Soluble	Analysis	300.0		1			10219	10/22/21 18:24	CH	XEN MID

Client Sample ID: C-47 4.1'

Date Collected: 10/15/21 09:50

Date Received: 10/15/21 11:43

Lab Sample ID: 890-1440-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9996	10/20/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10086	10/23/21 00:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/22/21 12:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10146	10/21/21 16:22	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10163	10/22/21 15:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9967	10/20/21 12:09	CH	XEN MID
Soluble	Analysis	300.0		1			10219	10/22/21 18:45	CH	XEN MID

Client Sample ID: C-48 4.1'

Date Collected: 10/15/21 09:55

Date Received: 10/15/21 11:43

Lab Sample ID: 890-1440-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9996	10/20/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10086	10/23/21 01:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/22/21 12:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10146	10/21/21 16:22	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10163	10/22/21 16:18	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9967	10/20/21 12:09	CH	XEN MID
Soluble	Analysis	300.0		1			10219	10/22/21 18:52	CH	XEN MID

Client Sample ID: C-55 4.1'

Date Collected: 10/15/21 10:00

Date Received: 10/15/21 11:43

Lab Sample ID: 890-1440-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	9996	10/20/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10086	10/23/21 01:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/22/21 12:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 19:50	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Client Sample ID: C-55 4.1'

Date Collected: 10/15/21 10:00

Date Received: 10/15/21 11:43

Lab Sample ID: 890-1440-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	9967	10/20/21 12:09	CH	XEN MID
Soluble	Analysis	300.0		1			10219	10/22/21 18:59	CH	XEN MID

Client Sample ID: C-56 4.1'

Date Collected: 10/15/21 10:05

Date Received: 10/15/21 11:43

Lab Sample ID: 890-1440-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9996	10/20/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10086	10/23/21 01:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/22/21 12:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 20:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9967	10/20/21 12:09	CH	XEN MID
Soluble	Analysis	300.0		1			10219	10/22/21 19:07	CH	XEN MID

Client Sample ID: C-59 4.1'

Date Collected: 10/15/21 10:10

Date Received: 10/15/21 11:43

Lab Sample ID: 890-1440-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9996	10/20/21 13:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10086	10/23/21 02:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/22/21 12:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10145	10/21/21 16:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9959	10/20/21 11:12	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9933	10/20/21 20:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9967	10/20/21 12:09	CH	XEN MID
Soluble	Analysis	300.0		1			10219	10/22/21 19:14	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1440-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1440-1	C-40 4.1'	Solid	10/15/21 09:30	10/15/21 11:43	4.1
890-1440-2	C-41 4.1'	Solid	10/15/21 09:35	10/15/21 11:43	4.1
890-1440-3	C-44 4.1'	Solid	10/15/21 09:40	10/15/21 11:43	4.1
890-1440-4	C-46 4.1'	Solid	10/15/21 09:45	10/15/21 11:43	4.1
890-1440-5	C-47 4.1'	Solid	10/15/21 09:50	10/15/21 11:43	4.1
890-1440-6	C-48 4.1'	Solid	10/15/21 09:55	10/15/21 11:43	4.1
890-1440-7	C-55 4.1'	Solid	10/15/21 10:00	10/15/21 11:43	4.1
890-1440-8	C-56 4.1'	Solid	10/15/21 10:05	10/15/21 11:43	4.1
890-1440-9	C-59 4.1'	Solid	10/15/21 10:10	10/15/21 11:43	4.1

Marson & Associates, Inc. Environmental Consultants 507 N. Mainfield, Ste. 202 Midland, TX 79701 432-687-0901			DATE: <u>10/13/2021</u> PAGE <u>1</u> OF <u>1</u> PO#: _____ LAB WORK ORDER#: _____ PROJECT LOCATION OR NAME: <u>Palmer A-5T</u> LAI PROJECT #: <u>21-0105-02</u> COLLECTOR: <u>TS4</u>	
Data Reported to:			CHAIN-OF-CUSTODY No. 2145	
TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	PRESERVATION HCl _____ HNO ₃ _____ H ₂ SO ₄ ☐ NaOH ☐ ICE _____ UNPRESERVED _____	
TIME ZONE: Time zone/State:	Field Sample I.D.	Lab #	Date	Time
Matrix	# of Containers	HCl HNO ₃ H ₂ SO ₄ ☐ NaOH ☐ ICE UNPRESERVED	ANALYSES BTEX ☐ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ OIL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PESTICIDES ☐ TOLP-PCBS ☐ TOLP-METALS (RCRA) ☐ TOLP VOC ☐ TOLP-PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ DW 200.8 ☐ TOLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECTHOLATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
FIELD NOTES	890-1440 Chain of Custody			
TOTAL <u>9</u>	TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐			
RELINQUISHED BY: (Signature) <u>S. Soliman</u>	DATE/TIME <u>10/13/21 14:43</u>	RECEIVED BY: (Signature) <u>[Signature]</u>	LABORATORY USE ONLY: RECEIVING TEMP: <u>5.0</u> THERM: <u>Thermometer</u> CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED CARRIER BILL # _____ HAND DELIVERED ☒	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	LABORATORY USE ONLY:	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	LABORATORY USE ONLY:	
LABORATORY: <u>XANEO</u>	DATE/TIME	RECEIVED BY: (Signature)	LABORATORY USE ONLY:	

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- 12
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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 86220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



eurofins
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact	Phone	Taylor Holly	State of Origin	890-465 1	Page 1 of 1
Shipping/Receiving	E-Mail	holly.taylor@eurofinset.com	New Mexico		
Company	Address	Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #	890-1440-1
Eurofins Xenco	1211 W Florida Ave				
City	Midland				
State, Zip	TX 79701				
Phone	432-704-5440(Tel)				
Email	WQ #				
Project Name:	Palmito AST				
Site	SSOW#:				
Due Date Requested		Analysis Requested		Preservation Codes	
10/21/2021		Field Filtered Sample (Yes or No)		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecylhydrate U Acetone V MCAA W pH 4-5 Z other (specify)	
TAT Requested (days):		Perform MS/MSD (Yes or No)			
89000025		8015MOD_NM/8015NM_S_Prep (MOD) Full TPH			
89000025		8015MOD_Calc			
89000025		300_ORGFM_28D/DI_LEACH Chloride			
89000025		8021B/6035FP_Calc (MOD) BTEX - LL			
89000025		Total_BTEX_GCV			
89000025		Total Number of containers			
89000025					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab, BT=Tissue, A=Air)	Matrix (W=water, S=solid, O=owast, A=air)
C-40 4 1' (890-1440-1)	10/15/21	09 30	Mountain	Solid	1
C-41 4 1' (890-1440-2)	10/15/21	09 35	Mountain	Solid	1
C-44 4 1' (890-1440-3)	10/15/21	09 40	Mountain	Solid	1
C-46 4 1' (890-1440-4)	10/15/21	09 45	Mountain	Solid	1
C-47 4 1' (890-1440-5)	10/15/21	09 50	Mountain	Solid	1
C-48 4 1' (890-1440-6)	10/15/21	09 55	Mountain	Solid	1
C-55 4 1' (890-1440-7)	10/15/21	10 00	Mountain	Solid	1
C-56 4 1' (890-1440-8)	10/15/21	10 05	Mountain	Solid	1
C-59 4 1' (890-1440-9)	10/15/21	10 10	Mountain	Solid	1
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (specify)					
Primary Deliverable Rank 2					
Special Instructions/QC Requirements					
Empty Kit Relinquished by					
Relinquished by					
Relinquished by					
Relinquished by					
Custody Seals Intact					
Cooler Temperature(s) °C and Other Remarks					
Ver 06/08/2021					

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1440-1

SDG Number: 21-0105-02

Login Number: 1440**List Number: 1****Creator: Olivas, Nathaniel****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1440-1

SDG Number: 21-0105-02

Login Number: 1440**List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Xenco, Midland****List Creation: 10/18/21 08:10 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5/0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1466-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST
Revision: 1

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/13/2021 10:11:50 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1466-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Job ID: 890-1466-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1466-1

Comments

No additional comments.

Receipt

The samples were received on 10/21/2021 2:36 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10432 and analytical batch 880-10403 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The continuing calibration verification (CCV) associated with batch 880-10804 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-10804/3), (CCV 880-10804/30) and (CCV 880-10804/46).

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (MB 880-10862/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-10657 and analytical batch 880-10797 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-10658 and analytical batch 880-10798 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-648 2.5'

Lab Sample ID: 890-1466-1

Date Collected: 10/18/21 11:47

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 13:38	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		10/25/21 13:59	10/27/21 13:38	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		10/25/21 13:59	10/27/21 13:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 13:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 13:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	10/25/21 13:59	10/27/21 13:38	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/25/21 13:59	10/27/21 13:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 11:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 11:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	10/28/21 15:31	10/29/21 11:54	1
o-Terphenyl	123		70 - 130	10/28/21 15:31	10/29/21 11:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			10/28/21 18:51	1

Client Sample ID: C-638 2.5'

Lab Sample ID: 890-1466-2

Date Collected: 10/18/21 12:00

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 13:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 13:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 13:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 13:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 13:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	10/25/21 13:59	10/27/21 13:58	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/25/21 13:59	10/27/21 13:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-638 2.5'

Lab Sample ID: 890-1466-2

Date Collected: 10/18/21 12:00

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 12:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 12:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/28/21 15:31	10/29/21 12:59	1
o-Terphenyl	120		70 - 130			10/28/21 15:31	10/29/21 12:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.6		4.98	mg/Kg			10/28/21 18:58	1

Client Sample ID: C-635 2.5'

Lab Sample ID: 890-1466-3

Date Collected: 10/18/21 12:11

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 14:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 14:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 14:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 13:59	10/27/21 14:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 14:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 13:59	10/27/21 14:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			10/25/21 13:59	10/27/21 14:19	1
1,4-Difluorobenzene (Surr)	96		70 - 130			10/25/21 13:59	10/27/21 14:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 13:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 13:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-635 2.5'

Lab Sample ID: 890-1466-3

Date Collected: 10/18/21 12:11

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 13:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			10/28/21 15:31	10/29/21 13:20	1
o-Terphenyl	125		70 - 130			10/28/21 15:31	10/29/21 13:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		5.00	mg/Kg			10/28/21 19:06	1

Client Sample ID: C-538 2.5'

Lab Sample ID: 890-1466-4

Date Collected: 10/18/21 13:30

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 14:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 14:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 14:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/25/21 13:59	10/27/21 14:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 14:39	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/25/21 13:59	10/27/21 14:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			10/25/21 13:59	10/27/21 14:39	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/25/21 13:59	10/27/21 14:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 13:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 13:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 13:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/28/21 15:31	10/29/21 13:41	1
o-Terphenyl	123		70 - 130			10/28/21 15:31	10/29/21 13:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.93		4.95	mg/Kg			10/28/21 19:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-531 2.5'

Lab Sample ID: 890-1466-5

Date Collected: 10/18/21 13:31

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 15:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 15:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 15:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 15:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 15:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	10/25/21 13:59	10/27/21 15:00	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/25/21 13:59	10/27/21 15:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 15:31	10/29/21 14:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 15:31	10/29/21 14:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 15:31	10/29/21 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	10/28/21 15:31	10/29/21 14:03	1
o-Terphenyl	115		70 - 130	10/28/21 15:31	10/29/21 14:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.81		4.98	mg/Kg			10/28/21 19:20	1

Client Sample ID: C-529 2.5'

Lab Sample ID: 890-1466-6

Date Collected: 10/18/21 13:32

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 15:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 15:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 15:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 15:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 15:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	10/25/21 13:59	10/27/21 15:20	1
1,4-Difluorobenzene (Surr)	72		70 - 130	10/25/21 13:59	10/27/21 15:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-529 2.5'

Lab Sample ID: 890-1466-6

Date Collected: 10/18/21 13:32

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 14:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 14:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			10/28/21 15:31	10/29/21 14:24	1
o-Terphenyl	112		70 - 130			10/28/21 15:31	10/29/21 14:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/28/21 19:27	1

Client Sample ID: C-522 2.5'

Lab Sample ID: 890-1466-7

Date Collected: 10/18/21 13:33

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 15:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 15:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 15:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/25/21 13:59	10/27/21 15:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 15:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/25/21 13:59	10/27/21 15:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			10/25/21 13:59	10/27/21 15:40	1
1,4-Difluorobenzene (Surr)	96		70 - 130			10/25/21 13:59	10/27/21 15:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 15:31	10/29/21 14:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 15:31	10/29/21 14:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-522 2.5'

Lab Sample ID: 890-1466-7

Date Collected: 10/18/21 13:33

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 15:31	10/29/21 14:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/28/21 15:31	10/29/21 14:46	1
o-Terphenyl	118		70 - 130			10/28/21 15:31	10/29/21 14:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.06		4.95	mg/Kg			10/28/21 19:48	1

Client Sample ID: C-521 2.5'

Lab Sample ID: 890-1466-8

Date Collected: 10/18/21 13:34

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 16:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 16:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 16:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 16:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 16:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 16:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			10/25/21 13:59	10/27/21 16:01	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/25/21 13:59	10/27/21 16:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 15:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/28/21 15:31	10/29/21 15:08	1
o-Terphenyl	117		70 - 130			10/28/21 15:31	10/29/21 15:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	904		5.04	mg/Kg			10/28/21 19:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-518 2.5'

Lab Sample ID: 890-1466-9

Date Collected: 10/18/21 13:35

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 16:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 16:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 16:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 13:59	10/27/21 16:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 16:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 13:59	10/27/21 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	10/25/21 13:59	10/27/21 16:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/25/21 13:59	10/27/21 16:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 15:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 15:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	10/28/21 15:31	10/29/21 15:29	1
o-Terphenyl	120		70 - 130	10/28/21 15:31	10/29/21 15:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		4.97	mg/Kg			10/28/21 20:17	1

Client Sample ID: C-505 2.5'

Lab Sample ID: 890-1466-10

Date Collected: 10/18/21 13:36

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 16:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 16:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 16:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 16:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 16:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	10/25/21 13:59	10/27/21 16:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/25/21 13:59	10/27/21 16:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-505 2.5'

Lab Sample ID: 890-1466-10

Date Collected: 10/18/21 13:36

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 15:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 15:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 15:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/28/21 15:31	10/29/21 15:50	1
o-Terphenyl	120		70 - 130			10/28/21 15:31	10/29/21 15:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.8		4.95	mg/Kg			10/28/21 20:24	1

Client Sample ID: C-512 2.5'

Lab Sample ID: 890-1466-11

Date Collected: 10/18/21 13:37

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 13:59	10/27/21 18:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 13:59	10/27/21 18:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 13:59	10/27/21 18:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 13:59	10/27/21 18:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 13:59	10/27/21 18:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 13:59	10/27/21 18:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			10/25/21 13:59	10/27/21 18:04	1
1,4-Difluorobenzene (Surr)	92		70 - 130			10/25/21 13:59	10/27/21 18:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 16:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 16:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-512 2.5'

Lab Sample ID: 890-1466-11

Date Collected: 10/18/21 13:37

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 16:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			10/28/21 15:31	10/29/21 16:33	1
o-Terphenyl	121		70 - 130			10/28/21 15:31	10/29/21 16:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.60		4.99	mg/Kg			10/28/21 20:31	1

Client Sample ID: C-473 2.5'

Lab Sample ID: 890-1466-12

Date Collected: 10/18/21 13:38

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 18:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 18:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 18:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 13:59	10/27/21 18:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 18:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 13:59	10/27/21 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			10/25/21 13:59	10/27/21 18:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/25/21 13:59	10/27/21 18:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 16:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 16:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 16:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/28/21 15:31	10/29/21 16:54	1
o-Terphenyl	119		70 - 130			10/28/21 15:31	10/29/21 16:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	436		5.04	mg/Kg			10/28/21 20:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-492 2.5'

Lab Sample ID: 890-1466-13

Date Collected: 10/18/21 13:39

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 18:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 18:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 18:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 13:59	10/27/21 18:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 18:45	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 13:59	10/27/21 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/25/21 13:59	10/27/21 18:45	1
1,4-Difluorobenzene (Surr)	92		70 - 130	10/25/21 13:59	10/27/21 18:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 17:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 17:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	10/28/21 15:31	10/29/21 17:16	1
o-Terphenyl	111		70 - 130	10/28/21 15:31	10/29/21 17:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.1		5.05	mg/Kg			10/28/21 20:46	1

Client Sample ID: C-486 2.5'

Lab Sample ID: 890-1466-14

Date Collected: 10/18/21 13:40

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 19:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 19:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 19:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 13:59	10/27/21 19:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 19:05	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 13:59	10/27/21 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	10/25/21 13:59	10/27/21 19:05	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/25/21 13:59	10/27/21 19:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-486 2.5'

Lab Sample ID: 890-1466-14

Date Collected: 10/18/21 13:40

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 17:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 17:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/28/21 15:31	10/29/21 17:37	1
o-Terphenyl	119		70 - 130			10/28/21 15:31	10/29/21 17:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	388		4.99	mg/Kg			10/28/21 20:53	1

Client Sample ID: C-500 2.5'

Lab Sample ID: 890-1466-15

Date Collected: 10/18/21 13:43

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/25/21 13:59	10/27/21 19:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/25/21 13:59	10/27/21 19:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/25/21 13:59	10/27/21 19:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/25/21 13:59	10/27/21 19:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/25/21 13:59	10/27/21 19:26	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/25/21 13:59	10/27/21 19:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			10/25/21 13:59	10/27/21 19:26	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/25/21 13:59	10/27/21 19:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 17:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 17:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-500 2.5'

Lab Sample ID: 890-1466-15

Date Collected: 10/18/21 13:43

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/28/21 15:31	10/29/21 17:58	1
o-Terphenyl	123		70 - 130			10/28/21 15:31	10/29/21 17:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.8		4.95	mg/Kg			10/28/21 21:00	1

Client Sample ID: C-495 2.5'

Lab Sample ID: 890-1466-16

Date Collected: 10/18/21 13:44

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 19:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 19:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 19:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 19:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 19:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			10/25/21 13:59	10/27/21 19:46	1
1,4-Difluorobenzene (Surr)	90		70 - 130			10/25/21 13:59	10/27/21 19:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 15:31	10/29/21 18:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 15:31	10/29/21 18:20	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 15:31	10/29/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/28/21 15:31	10/29/21 18:20	1
o-Terphenyl	126		70 - 130			10/28/21 15:31	10/29/21 18:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	659		4.95	mg/Kg			10/29/21 02:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-481 2.5'

Lab Sample ID: 890-1466-17

Date Collected: 10/18/21 13:45

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 13:59	10/27/21 20:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 13:59	10/27/21 20:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 13:59	10/27/21 20:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 13:59	10/27/21 20:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 13:59	10/27/21 20:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 13:59	10/27/21 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	10/25/21 13:59	10/27/21 20:07	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/25/21 13:59	10/27/21 20:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 18:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	10/28/21 15:31	10/29/21 18:41	1
o-Terphenyl	123		70 - 130	10/28/21 15:31	10/29/21 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.9		4.95	mg/Kg			10/29/21 02:45	1

Client Sample ID: C-507 2.5'

Lab Sample ID: 890-1466-18

Date Collected: 10/18/21 13:46

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 20:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 20:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 20:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 13:59	10/27/21 20:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 20:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 13:59	10/27/21 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	10/25/21 13:59	10/27/21 20:27	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/25/21 13:59	10/27/21 20:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-507 2.5'

Lab Sample ID: 890-1466-18

Date Collected: 10/18/21 13:46

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 19:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 19:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/28/21 15:31	10/29/21 19:02	1
o-Terphenyl	117		70 - 130			10/28/21 15:31	10/29/21 19:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	397		5.05	mg/Kg			10/29/21 02:52	1

Client Sample ID: C-501 2.5'

Lab Sample ID: 890-1466-19

Date Collected: 10/18/21 13:47

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 20:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 20:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 20:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 20:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:59	10/27/21 20:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 13:59	10/27/21 20:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			10/25/21 13:59	10/27/21 20:47	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/25/21 13:59	10/27/21 20:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 19:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 19:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-501 2.5'

Lab Sample ID: 890-1466-19

Date Collected: 10/18/21 13:47

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:31	10/29/21 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			10/28/21 15:31	10/29/21 19:23	1
o-Terphenyl	127		70 - 130			10/28/21 15:31	10/29/21 19:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	600		5.04	mg/Kg			10/29/21 03:13	1

Client Sample ID: C-511 2.5'

Lab Sample ID: 890-1466-20

Date Collected: 10/18/21 13:48

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/25/21 13:59	10/27/21 21:08	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/25/21 13:59	10/27/21 21:08	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/25/21 13:59	10/27/21 21:08	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/25/21 13:59	10/27/21 21:08	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/25/21 13:59	10/27/21 21:08	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/25/21 13:59	10/27/21 21:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			10/25/21 13:59	10/27/21 21:08	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/25/21 13:59	10/27/21 21:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 15:31	10/29/21 19:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 15:31	10/29/21 19:44	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 15:31	10/29/21 19:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/28/21 15:31	10/29/21 19:44	1
o-Terphenyl	116		70 - 130			10/28/21 15:31	10/29/21 19:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	621		4.98	mg/Kg			10/29/21 03:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-517 2.5'

Lab Sample ID: 890-1466-21

Date Collected: 10/18/21 13:44

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200	mg/Kg		10/25/21 14:01	10/27/21 15:57	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		10/25/21 14:01	10/27/21 15:57	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/Kg		10/25/21 14:01	10/27/21 15:57	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399	mg/Kg		10/25/21 14:01	10/27/21 15:57	1
o-Xylene	<0.00200	U F1	0.00200	mg/Kg		10/25/21 14:01	10/27/21 15:57	1
Xylenes, Total	<0.00399	U F1	0.00399	mg/Kg		10/25/21 14:01	10/27/21 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	10/25/21 14:01	10/27/21 15:57	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/25/21 14:01	10/27/21 15:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 11:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 11:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	10/28/21 09:03	10/28/21 11:58	1
o-Terphenyl	114		70 - 130	10/28/21 09:03	10/28/21 11:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	347		5.00	mg/Kg			10/29/21 03:27	1

Client Sample ID: C-528 2.5'

Lab Sample ID: 890-1466-22

Date Collected: 10/18/21 13:50

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:01	10/27/21 16:18	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:01	10/27/21 16:18	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:01	10/27/21 16:18	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/25/21 14:01	10/27/21 16:18	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:01	10/27/21 16:18	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/25/21 14:01	10/27/21 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/25/21 14:01	10/27/21 16:18	1
1,4-Difluorobenzene (Surr)	113		70 - 130	10/25/21 14:01	10/27/21 16:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-528 2.5'

Lab Sample ID: 890-1466-22

Date Collected: 10/18/21 13:50

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 12:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 12:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 12:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/28/21 09:03	10/28/21 12:19	1
o-Terphenyl	102		70 - 130			10/28/21 09:03	10/28/21 12:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	349		4.95	mg/Kg			10/29/21 03:35	1

Client Sample ID: C-526 2.5'

Lab Sample ID: 890-1466-23

Date Collected: 10/18/21 13:51

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:01	10/27/21 16:39	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:01	10/27/21 16:39	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:01	10/27/21 16:39	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/25/21 14:01	10/27/21 16:39	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:01	10/27/21 16:39	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/25/21 14:01	10/27/21 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			10/25/21 14:01	10/27/21 16:39	1
1,4-Difluorobenzene (Surr)	110		70 - 130			10/25/21 14:01	10/27/21 16:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 12:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 12:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-526 2.5'

Lab Sample ID: 890-1466-23

Date Collected: 10/18/21 13:51

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 12:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			10/28/21 09:03	10/28/21 12:39	1
o-Terphenyl	98		70 - 130			10/28/21 09:03	10/28/21 12:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	384		4.98	mg/Kg			10/29/21 03:42	1

Client Sample ID: C-487 2.5'

Lab Sample ID: 890-1466-24

Date Collected: 10/18/21 13:52

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:01	10/27/21 16:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:01	10/27/21 16:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:01	10/27/21 16:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 14:01	10/27/21 16:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:01	10/27/21 16:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 14:01	10/27/21 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			10/25/21 14:01	10/27/21 16:59	1
1,4-Difluorobenzene (Surr)	114		70 - 130			10/25/21 14:01	10/27/21 16:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 09:03	10/28/21 12:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 09:03	10/28/21 12:59	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 09:03	10/28/21 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			10/28/21 09:03	10/28/21 12:59	1
o-Terphenyl	97		70 - 130			10/28/21 09:03	10/28/21 12:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	405	F1	5.00	mg/Kg			10/29/21 03:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1224

Lab Sample ID: 890-1466-25

Date Collected: 10/18/21 13:53

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 17:20	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 17:20	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 17:20	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/25/21 14:01	10/27/21 17:20	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 17:20	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/25/21 14:01	10/27/21 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/25/21 14:01	10/27/21 17:20	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/25/21 14:01	10/27/21 17:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 13:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 13:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	10/28/21 09:03	10/28/21 13:19	1
o-Terphenyl	122		70 - 130	10/28/21 09:03	10/28/21 13:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		4.95	mg/Kg			10/29/21 04:11	1

Client Sample ID: C-1225

Lab Sample ID: 890-1466-26

Date Collected: 10/18/21 13:54

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 17:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 17:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 17:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 14:01	10/27/21 17:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 17:41	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 14:01	10/27/21 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/25/21 14:01	10/27/21 17:41	1
1,4-Difluorobenzene (Surr)	110		70 - 130	10/25/21 14:01	10/27/21 17:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1225

Lab Sample ID: 890-1466-26

Date Collected: 10/18/21 13:54

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 09:03	10/28/21 13:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 09:03	10/28/21 13:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 09:03	10/28/21 13:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/28/21 09:03	10/28/21 13:40	1
o-Terphenyl	120		70 - 130			10/28/21 09:03	10/28/21 13:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	440		5.04	mg/Kg			10/29/21 04:18	1

Client Sample ID: C-1200

Lab Sample ID: 890-1466-27

Date Collected: 10/20/21 10:30

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 18:02	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 18:02	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 18:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/25/21 14:01	10/27/21 18:02	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 18:02	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/25/21 14:01	10/27/21 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			10/25/21 14:01	10/27/21 18:02	1
1,4-Difluorobenzene (Surr)	111		70 - 130			10/25/21 14:01	10/27/21 18:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 14:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 14:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1200

Lab Sample ID: 890-1466-27

Date Collected: 10/20/21 10:30

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 14:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/28/21 09:03	10/28/21 14:00	1
o-Terphenyl	128		70 - 130			10/28/21 09:03	10/28/21 14:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	363		4.97	mg/Kg			10/29/21 04:39	1

Client Sample ID: C-1226

Lab Sample ID: 890-1466-28

Date Collected: 10/20/21 13:00

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 18:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 18:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 18:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 14:01	10/27/21 18:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 18:22	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 14:01	10/27/21 18:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			10/25/21 14:01	10/27/21 18:22	1
1,4-Difluorobenzene (Surr)	108		70 - 130			10/25/21 14:01	10/27/21 18:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 14:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 14:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 14:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			10/28/21 09:03	10/28/21 14:21	1
o-Terphenyl	94		70 - 130			10/28/21 09:03	10/28/21 14:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	308		4.95	mg/Kg			10/29/21 04:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1227

Lab Sample ID: 890-1466-29

Date Collected: 10/20/21 13:01

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 18:43	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 18:43	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 18:43	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/25/21 14:01	10/27/21 18:43	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 18:43	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/25/21 14:01	10/27/21 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/25/21 14:01	10/27/21 18:43	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/25/21 14:01	10/27/21 18:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	163		49.9	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 14:42	1
Diesel Range Organics (Over C10-C28)	163		49.9	mg/Kg		10/28/21 09:03	10/28/21 14:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	10/28/21 09:03	10/28/21 14:42	1
o-Terphenyl	123		70 - 130	10/28/21 09:03	10/28/21 14:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		4.99	mg/Kg			10/29/21 04:53	1

Client Sample ID: C-1228

Lab Sample ID: 890-1466-30

Date Collected: 10/20/21 13:02

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 19:04	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 19:04	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 19:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/25/21 14:01	10/27/21 19:04	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 19:04	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/25/21 14:01	10/27/21 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	10/25/21 14:01	10/27/21 19:04	1
1,4-Difluorobenzene (Surr)	110		70 - 130	10/25/21 14:01	10/27/21 19:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1228

Lab Sample ID: 890-1466-30

Date Collected: 10/20/21 13:02

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.2		49.9	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 15:23	1
Diesel Range Organics (Over C10-C28)	69.2		49.9	mg/Kg		10/28/21 09:03	10/28/21 15:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 15:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			10/28/21 09:03	10/28/21 15:23	1
o-Terphenyl	96		70 - 130			10/28/21 09:03	10/28/21 15:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		5.04	mg/Kg			10/29/21 05:01	1

Client Sample ID: C-1229

Lab Sample ID: 890-1466-31

Date Collected: 10/20/21 13:03

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 20:28	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 20:28	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 20:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/25/21 14:01	10/27/21 20:28	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:01	10/27/21 20:28	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/25/21 14:01	10/27/21 20:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/25/21 14:01	10/27/21 20:28	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/25/21 14:01	10/27/21 20:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 15:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 15:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1229

Lab Sample ID: 890-1466-31

Date Collected: 10/20/21 13:03

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 15:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			10/28/21 09:03	10/28/21 15:44	1
o-Terphenyl	101		70 - 130			10/28/21 09:03	10/28/21 15:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		5.05	mg/Kg			10/29/21 05:08	1

Client Sample ID: C-1230

Lab Sample ID: 890-1466-32

Date Collected: 10/20/21 13:04

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 20:49	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 20:49	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 20:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 14:01	10/27/21 20:49	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 20:49	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 14:01	10/27/21 20:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/25/21 14:01	10/27/21 20:49	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/25/21 14:01	10/27/21 20:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 16:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 16:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 16:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130			10/28/21 09:03	10/28/21 16:05	1
o-Terphenyl	87		70 - 130			10/28/21 09:03	10/28/21 16:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	292		4.99	mg/Kg			10/29/21 05:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1231

Lab Sample ID: 890-1466-33

Date Collected: 10/20/21 13:05

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 21:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 21:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 21:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 14:01	10/27/21 21:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 21:10	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 14:01	10/27/21 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/25/21 14:01	10/27/21 21:10	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/25/21 14:01	10/27/21 21:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 16:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 16:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	10/28/21 09:03	10/28/21 16:25	1
o-Terphenyl	86		70 - 130	10/28/21 09:03	10/28/21 16:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	283		4.95	mg/Kg			10/29/21 05:22	1

Client Sample ID: C-1232

Lab Sample ID: 890-1466-34

Date Collected: 10/20/21 13:06

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:01	10/27/21 21:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:01	10/27/21 21:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:01	10/27/21 21:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 14:01	10/27/21 21:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:01	10/27/21 21:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 14:01	10/27/21 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	10/25/21 14:01	10/27/21 21:30	1
1,4-Difluorobenzene (Surr)	95		70 - 130	10/25/21 14:01	10/27/21 21:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1232

Lab Sample ID: 890-1466-34

Date Collected: 10/20/21 13:06

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 16:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 16:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 16:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			10/28/21 09:03	10/28/21 16:56	1
o-Terphenyl	99		70 - 130			10/28/21 09:03	10/28/21 16:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	371		4.95	mg/Kg			10/28/21 18:55	1

Client Sample ID: C-1233

Lab Sample ID: 890-1466-35

Date Collected: 10/20/21 13:07

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 21:51	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 21:51	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 21:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 14:01	10/27/21 21:51	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 21:51	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 14:01	10/27/21 21:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			10/25/21 14:01	10/27/21 21:51	1
1,4-Difluorobenzene (Surr)	111		70 - 130			10/25/21 14:01	10/27/21 21:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 09:03	10/28/21 17:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 09:03	10/28/21 17:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1233

Lab Sample ID: 890-1466-35

Date Collected: 10/20/21 13:07

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 09:03	10/28/21 17:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			10/28/21 09:03	10/28/21 17:16	1
o-Terphenyl	85		70 - 130			10/28/21 09:03	10/28/21 17:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	368		5.05	mg/Kg			10/28/21 19:01	1

Client Sample ID: C-1234

Lab Sample ID: 890-1466-36

Date Collected: 10/20/21 13:08

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:01	10/27/21 22:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:01	10/27/21 22:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:01	10/27/21 22:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 14:01	10/27/21 22:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:01	10/27/21 22:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 14:01	10/27/21 22:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			10/25/21 14:01	10/27/21 22:12	1
1,4-Difluorobenzene (Surr)	111		70 - 130			10/25/21 14:01	10/27/21 22:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 17:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 17:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 17:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			10/28/21 09:03	10/28/21 17:36	1
o-Terphenyl	100		70 - 130			10/28/21 09:03	10/28/21 17:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	385		5.04	mg/Kg			10/28/21 19:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1235

Lab Sample ID: 890-1466-37

Date Collected: 10/20/21 13:09

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 22:33	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 22:33	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 22:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 14:01	10/27/21 22:33	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 22:33	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 14:01	10/27/21 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/25/21 14:01	10/27/21 22:33	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/25/21 14:01	10/27/21 22:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 17:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 17:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	10/28/21 09:03	10/28/21 17:56	1
o-Terphenyl	99		70 - 130	10/28/21 09:03	10/28/21 17:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		4.98	mg/Kg			10/28/21 19:25	1

Client Sample ID: C-1236

Lab Sample ID: 890-1466-38

Date Collected: 10/20/21 13:10

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 22:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 22:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 22:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 14:01	10/27/21 22:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 22:53	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 14:01	10/27/21 22:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/25/21 14:01	10/27/21 22:53	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/25/21 14:01	10/27/21 22:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1236

Lab Sample ID: 890-1466-38

Date Collected: 10/20/21 13:10

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 18:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 18:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 09:03	10/28/21 18:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			10/28/21 09:03	10/28/21 18:16	1
o-Terphenyl	87		70 - 130			10/28/21 09:03	10/28/21 18:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	500		5.00	mg/Kg			10/28/21 19:31	1

Client Sample ID: C-1237

Lab Sample ID: 890-1466-39

Date Collected: 10/20/21 13:11

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 23:14	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 23:14	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 23:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 14:01	10/27/21 23:14	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 23:14	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 14:01	10/27/21 23:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			10/25/21 14:01	10/27/21 23:14	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/25/21 14:01	10/27/21 23:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 09:03	10/28/21 18:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 09:03	10/28/21 18:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1237

Lab Sample ID: 890-1466-39

Date Collected: 10/20/21 13:11

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 09:03	10/28/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/28/21 09:03	10/28/21 18:35	1
o-Terphenyl	114		70 - 130			10/28/21 09:03	10/28/21 18:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	851		4.95	mg/Kg			10/28/21 19:37	1

Client Sample ID: C-1238

Lab Sample ID: 890-1466-40

Date Collected: 10/20/21 13:12

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 23:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 23:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 23:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 14:01	10/27/21 23:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:01	10/27/21 23:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 14:01	10/27/21 23:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			10/25/21 14:01	10/27/21 23:34	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/25/21 14:01	10/27/21 23:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 16:48	10/29/21 21:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 16:48	10/29/21 21:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 16:48	10/29/21 21:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/28/21 16:48	10/29/21 21:29	1
o-Terphenyl	119		70 - 130			10/28/21 16:48	10/29/21 21:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		4.98	mg/Kg			10/28/21 19:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1239

Lab Sample ID: 890-1466-41

Date Collected: 10/20/21 13:13

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:56	10/27/21 06:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:56	10/27/21 06:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:56	10/27/21 06:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 13:56	10/27/21 06:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:56	10/27/21 06:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 13:56	10/27/21 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	10/25/21 13:56	10/27/21 06:19	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/25/21 13:56	10/27/21 06:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 16:48	10/29/21 22:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 16:48	10/29/21 22:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 16:48	10/29/21 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	10/28/21 16:48	10/29/21 22:33	1
o-Terphenyl	111		70 - 130	10/28/21 16:48	10/29/21 22:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	711	F1	5.00	mg/Kg			10/28/21 19:48	1

Client Sample ID: C-1240

Lab Sample ID: 890-1466-42

Date Collected: 10/20/21 13:14

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:56	10/27/21 06:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:56	10/27/21 06:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:56	10/27/21 06:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 13:56	10/27/21 06:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:56	10/27/21 06:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 13:56	10/27/21 06:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	10/25/21 13:56	10/27/21 06:46	1
1,4-Difluorobenzene (Surr)	116		70 - 130	10/25/21 13:56	10/27/21 06:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1240

Lab Sample ID: 890-1466-42

Date Collected: 10/20/21 13:14

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 16:48	10/29/21 22:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 16:48	10/29/21 22:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 16:48	10/29/21 22:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/28/21 16:48	10/29/21 22:54	1
o-Terphenyl	114		70 - 130			10/28/21 16:48	10/29/21 22:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	495		4.95	mg/Kg			10/28/21 20:06	1

Client Sample ID: C-1241

Lab Sample ID: 890-1466-43

Date Collected: 10/20/21 13:15

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/25/21 13:56	10/27/21 07:14	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/25/21 13:56	10/27/21 07:14	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/25/21 13:56	10/27/21 07:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/25/21 13:56	10/27/21 07:14	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/25/21 13:56	10/27/21 07:14	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/25/21 13:56	10/27/21 07:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			10/25/21 13:56	10/27/21 07:14	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/25/21 13:56	10/27/21 07:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	151		50.0	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 16:48	10/29/21 23:15	1
Diesel Range Organics (Over C10-C28)	151		50.0	mg/Kg		10/28/21 16:48	10/29/21 23:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1241

Lab Sample ID: 890-1466-43

Date Collected: 10/20/21 13:15

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 16:48	10/29/21 23:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			10/28/21 16:48	10/29/21 23:15	1
o-Terphenyl	107		70 - 130			10/28/21 16:48	10/29/21 23:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	395		5.04	mg/Kg			10/28/21 20:12	1

Client Sample ID: C-1242

Lab Sample ID: 890-1466-44

Date Collected: 10/20/21 13:16

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:56	10/27/21 07:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:56	10/27/21 07:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:56	10/27/21 07:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 13:56	10/27/21 07:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 13:56	10/27/21 07:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 13:56	10/27/21 07:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			10/25/21 13:56	10/27/21 07:41	1
1,4-Difluorobenzene (Surr)	116		70 - 130			10/25/21 13:56	10/27/21 07:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 16:48	10/29/21 23:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 16:48	10/29/21 23:37	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 16:48	10/29/21 23:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/28/21 16:48	10/29/21 23:37	1
o-Terphenyl	112		70 - 130			10/28/21 16:48	10/29/21 23:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	446		4.97	mg/Kg			10/28/21 20:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1243

Lab Sample ID: 890-1466-45

Date Collected: 10/20/21 13:17

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/25/21 13:56	10/27/21 08:09	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/25/21 13:56	10/27/21 08:09	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/25/21 13:56	10/27/21 08:09	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/25/21 13:56	10/27/21 08:09	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/25/21 13:56	10/27/21 08:09	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/25/21 13:56	10/27/21 08:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/25/21 13:56	10/27/21 08:09	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/25/21 13:56	10/27/21 08:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 16:48	10/29/21 23:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 16:48	10/29/21 23:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 16:48	10/29/21 23:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	10/28/21 16:48	10/29/21 23:58	1
o-Terphenyl	109		70 - 130	10/28/21 16:48	10/29/21 23:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	517		4.95	mg/Kg			10/28/21 20:35	1

Client Sample ID: C-1244

Lab Sample ID: 890-1466-46

Date Collected: 10/20/21 13:18

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:56	10/27/21 08:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:56	10/27/21 08:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:56	10/27/21 08:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/25/21 13:56	10/27/21 08:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:56	10/27/21 08:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/25/21 13:56	10/27/21 08:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	10/25/21 13:56	10/27/21 08:36	1
1,4-Difluorobenzene (Surr)	115		70 - 130	10/25/21 13:56	10/27/21 08:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1244

Lab Sample ID: 890-1466-46

Date Collected: 10/20/21 13:18

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 16:48	10/30/21 00:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 16:48	10/30/21 00:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 16:48	10/30/21 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/28/21 16:48	10/30/21 00:19	1
o-Terphenyl	109		70 - 130			10/28/21 16:48	10/30/21 00:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450		4.99	mg/Kg			10/29/21 08:11	1

Client Sample ID: C-1245

Lab Sample ID: 890-1466-47

Date Collected: 10/20/21 13:19

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:56	10/27/21 09:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:56	10/27/21 09:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:56	10/27/21 09:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 13:56	10/27/21 09:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:56	10/27/21 09:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 13:56	10/27/21 09:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			10/25/21 13:56	10/27/21 09:04	1
1,4-Difluorobenzene (Surr)	115		70 - 130			10/25/21 13:56	10/27/21 09:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 14:47	10/29/21 18:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 14:47	10/29/21 18:59	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1245

Lab Sample ID: 890-1466-47

Date Collected: 10/20/21 13:19

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 14:47	10/29/21 18:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			10/28/21 14:47	10/29/21 18:59	1
o-Terphenyl	99		70 - 130			10/28/21 14:47	10/29/21 18:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	313		5.04	mg/Kg			10/29/21 08:17	1

Client Sample ID: C-1246

Lab Sample ID: 890-1466-48

Date Collected: 10/20/21 13:20

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 13:56	10/27/21 09:35	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 13:56	10/27/21 09:35	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 13:56	10/27/21 09:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 13:56	10/27/21 09:35	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 13:56	10/27/21 09:35	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 13:56	10/27/21 09:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			10/25/21 13:56	10/27/21 09:35	1
1,4-Difluorobenzene (Surr)	85		70 - 130			10/25/21 13:56	10/27/21 09:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/27/21 13:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/29/21 11:22	10/30/21 19:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/29/21 11:22	10/30/21 19:38	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/29/21 11:22	10/30/21 19:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/29/21 11:22	10/30/21 19:38	1
o-Terphenyl	113		70 - 130			10/29/21 11:22	10/30/21 19:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		5.05	mg/Kg			10/29/21 08:23	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-7440-A-1-A MS	Matrix Spike	111	112
880-7440-A-1-B MSD	Matrix Spike Duplicate	1518140	1686735
		S1+	S1+
890-1466-1	C-648 2.5'	116	88
890-1466-1 MS	C-648 2.5'	118	103
890-1466-1 MSD	C-648 2.5'	113	105
890-1466-2	C-638 2.5'	124	90
890-1466-3	C-635 2.5'	126	96
890-1466-4	C-538 2.5'	116	93
890-1466-5	C-531 2.5'	126	96
890-1466-6	C-529 2.5'	131 S1+	72
890-1466-7	C-522 2.5'	119	96
890-1466-8	C-521 2.5'	119	94
890-1466-9	C-518 2.5'	128	99
890-1466-10	C-505 2.5'	132 S1+	105
890-1466-11	C-512 2.5'	114	92
890-1466-12	C-473 2.5'	121	100
890-1466-13	C-492 2.5'	112	92
890-1466-14	C-486 2.5'	130	98
890-1466-15	C-500 2.5'	114	106
890-1466-16	C-495 2.5'	115	90
890-1466-17	C-481 2.5'	119	93
890-1466-18	C-507 2.5'	127	97
890-1466-19	C-501 2.5'	104	100
890-1466-20	C-511 2.5'	107	94
890-1466-21	C-517 2.5'	91	107
890-1466-21 MS	C-517 2.5'	94	101
890-1466-21 MSD	C-517 2.5'	98	101
890-1466-22	C-528 2.5'	99	113
890-1466-23	C-526 2.5'	93	110
890-1466-24	C-487 2.5'	100	114
890-1466-25	C-1224	100	104
890-1466-26	C-1225	93	110
890-1466-27	C-1200	101	111
890-1466-28	C-1226	100	108
890-1466-29	C-1227	95	108
890-1466-30	C-1228	94	110
890-1466-31	C-1229	92	106
890-1466-32	C-1230	96	109
890-1466-33	C-1231	97	105
890-1466-34	C-1232	150 S1+	95
890-1466-35	C-1233	94	111
890-1466-36	C-1234	94	111
890-1466-37	C-1235	93	107
890-1466-38	C-1236	99	107
890-1466-39	C-1237	104	106
890-1466-40	C-1238	104	109
890-1466-41	C-1239	129	107
890-1466-42	C-1240	117	116
890-1466-43	C-1241	111	103

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1466-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1466-44	C-1242	118	116
890-1466-45	C-1243	108	102
890-1466-46	C-1244	122	115
890-1466-47	C-1245	123	115
890-1466-48	C-1246	110	85
LCS 880-10432/1-A	Lab Control Sample	104	111
LCS 880-10434/1-A	Lab Control Sample	106	101
LCS 880-10435/1-A	Lab Control Sample	99	98
LCSD 880-10432/2-A	Lab Control Sample Dup	104	105
LCSD 880-10434/2-A	Lab Control Sample Dup	107	105
LCSD 880-10435/2-A	Lab Control Sample Dup	97	99
MB 880-10198/5-A	Method Blank	72	100
MB 880-10432/5-A	Method Blank	77	101
MB 880-10434/5-A	Method Blank	110	96
MB 880-10435/5-A	Method Blank	109	105
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-7518-A-21-E MS	Matrix Spike	101	95
880-7518-A-21-F MSD	Matrix Spike Duplicate	103	97
890-1460-A-1-G MS	Matrix Spike	84	82
890-1460-A-1-H MSD	Matrix Spike Duplicate	84	85
890-1466-1	C-648 2.5'	111	123
890-1466-1 MS	C-648 2.5'	104	100
890-1466-1 MSD	C-648 2.5'	100	97
890-1466-2	C-638 2.5'	112	120
890-1466-3	C-635 2.5'	115	125
890-1466-4	C-538 2.5'	111	123
890-1466-5	C-531 2.5'	107	115
890-1466-6	C-529 2.5'	102	112
890-1466-7	C-522 2.5'	110	118
890-1466-8	C-521 2.5'	106	117
890-1466-9	C-518 2.5'	109	120
890-1466-10	C-505 2.5'	109	120
890-1466-11	C-512 2.5'	111	121
890-1466-12	C-473 2.5'	108	119
890-1466-13	C-492 2.5'	102	111
890-1466-14	C-486 2.5'	106	119
890-1466-15	C-500 2.5'	112	123
890-1466-16	C-495 2.5'	108	126
890-1466-17	C-481 2.5'	113	123
890-1466-18	C-507 2.5'	107	117
890-1466-19	C-501 2.5'	114	127

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1466-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1466-20	C-511 2.5'	104	116
890-1466-21	C-517 2.5'	100	114
890-1466-22	C-528 2.5'	93	102
890-1466-23	C-526 2.5'	87	98
890-1466-24	C-487 2.5'	88	97
890-1466-25	C-1224	107	122
890-1466-26	C-1225	98	120
890-1466-27	C-1200	107	128
890-1466-28	C-1226	85	94
890-1466-29	C-1227	108	123
890-1466-30	C-1228	84	96
890-1466-31	C-1229	86	101
890-1466-32	C-1230	77	87
890-1466-33	C-1231	79	86
890-1466-34	C-1232	89	99
890-1466-35	C-1233	81	85
890-1466-36	C-1234	87	100
890-1466-37	C-1235	92	99
890-1466-38	C-1236	84	87
890-1466-39	C-1237	98	114
890-1466-40	C-1238	106	119
890-1466-40 MS	C-1238	98	96
890-1466-40 MSD	C-1238	99	97
890-1466-41	C-1239	102	111
890-1466-42	C-1240	104	114
890-1466-43	C-1241	99	107
890-1466-44	C-1242	101	112
890-1466-45	C-1243	97	109
890-1466-46	C-1244	98	109
890-1466-47	C-1245	92	99
890-1466-48	C-1246	105	113
890-1488-A-21-C MS	Matrix Spike	101	98
890-1488-A-21-D MSD	Matrix Spike Duplicate	86	83
LCS 880-10823/2-A	Lab Control Sample	91	93
LCS 880-10846/2-A	Lab Control Sample	104	105
LCS 880-10862/2-A	Lab Control Sample	99	104
LCS 880-10876/2-A	Lab Control Sample	98	108
LCS 880-10924/2-A	Lab Control Sample	93	93
LCSD 880-10823/3-A	Lab Control Sample Dup	87	86
LCSD 880-10846/3-A	Lab Control Sample Dup	98	103
LCSD 880-10862/3-A	Lab Control Sample Dup	103	110
LCSD 880-10876/3-A	Lab Control Sample Dup	88	97
LCSD 880-10924/3-A	Lab Control Sample Dup	87	88
MB 880-10823/1-A	Method Blank	95	109
MB 880-10846/1-A	Method Blank	96	111
MB 880-10862/1-A	Method Blank	115	136 S1+
MB 880-10876/1-A	Method Blank	113	131 S1+
MB 880-10924/1-A	Method Blank	109	121

Surrogate Legend

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Job ID: 890-1466-1
SDG: 21-0105-02

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10198/5-A

Matrix: Solid

Analysis Batch: 10403

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10198

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/22/21 09:41	10/26/21 08:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/22/21 09:41	10/26/21 08:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/22/21 09:41	10/26/21 08:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/22/21 09:41	10/26/21 08:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/22/21 09:41	10/26/21 08:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/22/21 09:41	10/26/21 08:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	10/22/21 09:41	10/26/21 08:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/22/21 09:41	10/26/21 08:19	1

Lab Sample ID: MB 880-10432/5-A

Matrix: Solid

Analysis Batch: 10403

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10432

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:56	10/27/21 00:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:56	10/27/21 00:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:56	10/27/21 00:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 13:56	10/27/21 00:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:56	10/27/21 00:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 13:56	10/27/21 00:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	10/25/21 13:56	10/27/21 00:00	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/25/21 13:56	10/27/21 00:00	1

Lab Sample ID: LCS 880-10432/1-A

Matrix: Solid

Analysis Batch: 10403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1010		mg/Kg		101	70 - 130
Toluene	0.100	0.09607		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09451		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1833		mg/Kg		92	70 - 130
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-10432/2-A

Matrix: Solid

Analysis Batch: 10403

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10432

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1001		mg/Kg		100	70 - 130	1	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-10432/2-A

Matrix: Solid

Analysis Batch: 10403

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10432

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.09370		mg/Kg		94	70 - 130	3	35
Ethylbenzene	0.100	0.09384		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1819		mg/Kg		91	70 - 130	1	35
o-Xylene	0.100	0.1162		mg/Kg		116	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-7440-A-1-A MS

Matrix: Solid

Analysis Batch: 10403

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.101	0.05291	F1	mg/Kg		52	70 - 130
Toluene	<0.00200	U F2 F1	0.101	0.03919	F1	mg/Kg		39	70 - 130
Ethylbenzene	<0.00200	U F1	0.101	0.02996	F1	mg/Kg		30	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.05338	F1	mg/Kg		26	70 - 130
o-Xylene	<0.00200	U F2 F1	0.101	0.03946	F1	mg/Kg		39	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-7440-A-1-B MSD

Matrix: Solid

Analysis Batch: 10403

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10432

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.04937	F1	mg/Kg		49	70 - 130	7	35
Toluene	<0.00200	U F2 F1	0.100	0.1315	F1 F2	mg/Kg		131	70 - 130	108	35
Ethylbenzene	<0.00200	U F1	0.100	0.04058	F1	mg/Kg		41	70 - 130	30	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.04848	F1	mg/Kg		24	70 - 130	10	35
o-Xylene	<0.00200	U F2 F1	0.100	0.06950	F2	mg/Kg		70	70 - 130	55	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	1518140	S1+	70 - 130
1,4-Difluorobenzene (Surr)	1686735	S1+	70 - 130

Lab Sample ID: MB 880-10434/5-A

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10434

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 13:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 13:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 13:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 13:59	10/27/21 13:16	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-10434/5-A

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10434

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 13:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 13:59	10/27/21 13:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/25/21 13:59	10/27/21 13:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/25/21 13:59	10/27/21 13:16	1

Lab Sample ID: LCS 880-10434/1-A

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08756		mg/Kg		88	70 - 130
Toluene	0.100	0.08410		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08674		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1775		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08951		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-10434/2-A

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10434

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08297		mg/Kg		83	70 - 130	5	35
Toluene	0.100	0.07789		mg/Kg		78	70 - 130	8	35
Ethylbenzene	0.100	0.08036		mg/Kg		80	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1656		mg/Kg		83	70 - 130	7	35
o-Xylene	0.100	0.08390		mg/Kg		84	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-1466-1 MS

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: C-648 2.5'

Prep Type: Total/NA

Prep Batch: 10434

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0998	0.07666		mg/Kg		76	70 - 130
Toluene	<0.00199	U F1	0.0998	0.07593		mg/Kg		75	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.07951		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1636		mg/Kg		82	70 - 130
o-Xylene	<0.00199	U	0.0998	0.08228		mg/Kg		82	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1466-1 MS

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: C-648 2.5'

Prep Type: Total/NA

Prep Batch: 10434

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1466-1 MSD

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: C-648 2.5'

Prep Type: Total/NA

Prep Batch: 10434

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.07079		mg/Kg		71	70 - 130	8	35
Toluene	<0.00199	U F1	0.0996	0.06732	F1	mg/Kg		67	70 - 130	12	35
Ethylbenzene	<0.00199	U F1	0.0996	0.06743	F1	mg/Kg		68	70 - 130	16	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1417		mg/Kg		71	70 - 130	14	35
o-Xylene	<0.00199	U	0.0996	0.07157		mg/Kg		71	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-10435/5-A

Matrix: Solid

Analysis Batch: 10683

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10435

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 15:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 15:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 15:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 14:01	10/27/21 15:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:01	10/27/21 15:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 14:01	10/27/21 15:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/25/21 14:01	10/27/21 15:35	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/25/21 14:01	10/27/21 15:35	1

Lab Sample ID: LCS 880-10435/1-A

Matrix: Solid

Analysis Batch: 10683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08705		mg/Kg		87	70 - 130
Toluene	0.100	0.07975		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.08896		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1695		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08711		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-10435/1-A

Matrix: Solid

Analysis Batch: 10683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10435

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-10435/2-A

Matrix: Solid

Analysis Batch: 10683

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10435

	LCS	LCS									
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08841		mg/Kg		88	70 - 130	2	35
Toluene			0.100	0.07994		mg/Kg		80	70 - 130	0	35
Ethylbenzene			0.100	0.08776		mg/Kg		88	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1674		mg/Kg		84	70 - 130	1	35
o-Xylene			0.100	0.08602		mg/Kg		86	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-1466-21 MS

Matrix: Solid

Analysis Batch: 10683

Client Sample ID: C-517 2.5'

Prep Type: Total/NA

Prep Batch: 10435

	Sample	Sample	Spike	MS	MS						
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F1	0.101	0.07677		mg/Kg		76	70 - 130		
Toluene	<0.00200	U F1	0.101	0.06431	F1	mg/Kg		64	70 - 130		
Ethylbenzene	<0.00200	U F1	0.101	0.06598	F1	mg/Kg		66	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F1	0.201	0.1242	F1	mg/Kg		62	70 - 130		
o-Xylene	<0.00200	U F1	0.101	0.06409	F1	mg/Kg		64	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-1466-21 MSD

Matrix: Solid

Analysis Batch: 10683

Client Sample ID: C-517 2.5'

Prep Type: Total/NA

Prep Batch: 10435

	Sample	Sample	Spike	MSD	MSD						
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0996	0.06769	F1	mg/Kg		68	70 - 130	13	35
Toluene	<0.00200	U F1	0.0996	0.05853	F1	mg/Kg		59	70 - 130	9	35
Ethylbenzene	<0.00200	U F1	0.0996	0.06060	F1	mg/Kg		61	70 - 130	9	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1151	F1	mg/Kg		58	70 - 130	8	35
o-Xylene	<0.00200	U F1	0.0996	0.05958	F1	mg/Kg		60	70 - 130	7	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-10823/1-A

Matrix: Solid

Analysis Batch: 10804

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10823

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 09:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 09:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 09:03	10/28/21 09:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			10/28/21 09:03	10/28/21 09:58	1
o-Terphenyl	109		70 - 130			10/28/21 09:03	10/28/21 09:58	1

Lab Sample ID: LCS 880-10823/2-A

Matrix: Solid

Analysis Batch: 10804

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	986.3		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	808.6		mg/Kg		81	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	91		70 - 130				
o-Terphenyl	93		70 - 130				

Lab Sample ID: LCSD 880-10823/3-A

Matrix: Solid

Analysis Batch: 10804

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10823

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1047		mg/Kg		105	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	755.1		mg/Kg		76	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	87		70 - 130						
o-Terphenyl	86		70 - 130						

Lab Sample ID: 890-1460-A-1-G MS

Matrix: Solid

Analysis Batch: 10804

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	998.4		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	794.6		mg/Kg		77	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1460-A-1-G MS

Matrix: Solid

Analysis Batch: 10804

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10823

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 890-1460-A-1-H MSD

Matrix: Solid

Analysis Batch: 10804

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	917.6		mg/Kg		92	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	815.5		mg/Kg		79	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: MB 880-10846/1-A

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10846

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 14:47	10/29/21 10:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 14:47	10/29/21 10:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 14:47	10/29/21 10:52	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	96		70 - 130	10/28/21 14:47	10/29/21 10:52	1
o-Terphenyl	111		70 - 130	10/28/21 14:47	10/29/21 10:52	1

Lab Sample ID: LCS 880-10846/2-A

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1093		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	922.2		mg/Kg		92	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	105		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-10846/3-A

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10846

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	998.3		mg/Kg		100	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	915.7		mg/Kg		92	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	103		70 - 130						

Lab Sample ID: 890-1488-A-21-C MS

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10846

Report Date: 10/26/2023										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	997	1253		mg/Kg		121	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	997	927.0		mg/Kg		91	70 - 130	
Surrogate	MS %Recovery	MS Qualifier	Limits							
1-Chlorooctane	101		70 - 130							
o-Terphenyl	98		70 - 130							

Lab Sample ID: 890-1488-A-21-D MSD

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	1000	1006	F2	mg/Kg	-	96	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	779.6		mg/Kg		76	70 - 130	17	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	86		70 - 130								
o-Terphenyl	83		70 - 130								

Lab Sample ID: MB 880-10862/1-A

Matrix: Solid

Analysis Batch: 10889

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10862

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 10:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 10:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 15:31	10/29/21 10:51	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-10862/1-A

Matrix: Solid

Analysis Batch: 10889

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10862

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	10/28/21 15:31	10/29/21 10:51	1
o-Terphenyl	136	S1+	70 - 130	10/28/21 15:31	10/29/21 10:51	1

Lab Sample ID: LCS 880-10862/2-A

Matrix: Solid

Analysis Batch: 10889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	916.7		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1043		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-10862/3-A

Matrix: Solid

Analysis Batch: 10889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	873.5		mg/Kg		87	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	981.7		mg/Kg		98	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-1466-1 MS

Matrix: Solid

Analysis Batch: 10889

Client Sample ID: C-648 2.5'

Prep Type: Total/NA

Prep Batch: 10862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1031		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	974.5		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	100		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1466-1 MSD

Matrix: Solid

Analysis Batch: 10889

Client Sample ID: C-648 2.5'

Prep Type: Total/NA

Prep Batch: 10862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1014		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	957.3		mg/Kg		96	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	97		70 - 130								

Lab Sample ID: MB 880-10876/1-A

Matrix: Solid

Analysis Batch: 10889

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10876

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 16:48	10/29/21 20:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 16:48	10/29/21 20:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 16:48	10/29/21 20:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/28/21 16:48	10/29/21 20:27	1
o-Terphenyl	131	S1+	70 - 130			10/28/21 16:48	10/29/21 20:27	1

Lab Sample ID: LCS 880-10876/2-A

Matrix: Solid

Analysis Batch: 10889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10876

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	824.7		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	949.0		mg/Kg		95	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	108		70 - 130						

Lab Sample ID: LCSD 880-10876/3-A

Matrix: Solid

Analysis Batch: 10889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10876

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	834.2		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	957.1		mg/Kg		96	70 - 130	1	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-10876/3-A

Matrix: Solid

Analysis Batch: 10889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10876

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 890-1466-40 MS

Matrix: Solid

Analysis Batch: 10889

Client Sample ID: C-1238

Prep Type: Total/NA

Prep Batch: 10876

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	999.8		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	904.2		mg/Kg		88	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	96		70 - 130						

Lab Sample ID: 890-1466-40 MSD

Matrix: Solid

Analysis Batch: 10889

Client Sample ID: C-1238

Prep Type: Total/NA

Prep Batch: 10876

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1009		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	925.3		mg/Kg		90	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	97		70 - 130								

Lab Sample ID: MB 880-10924/1-A

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10924

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/29/21 11:22	10/30/21 10:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/29/21 11:22	10/30/21 10:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/29/21 11:22	10/30/21 10:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/29/21 11:22	10/30/21 10:43	1
o-Terphenyl	121		70 - 130			10/29/21 11:22	10/30/21 10:43	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-10924/2-A

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10924

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	793.0		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1086		mg/Kg		109	70 - 130		
							</				

Lab Sample ID: LCSD 880-10924/3-A

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10924

Analysis Date: 10/24/2024							Top Date: 10/24/2024				
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	755.4		mg/Kg		76	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1090		mg/Kg		109	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	88		70 - 130								

Lab Sample ID: 880-7518-A-21-E MS

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10924

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	996.7		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1035		mg/Kg		102	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	95		70 - 130								

Lab Sample ID: 880-7518-A-21-F MSD

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1011		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1091		mg/Kg		108	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	103		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-7518-A-21-F MSD

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10924

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10656/1-A

Matrix: Solid

Analysis Batch: 10795

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/28/21 17:25	1

Lab Sample ID: LCS 880-10656/2-A

Matrix: Solid

Analysis Batch: 10795

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.6		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-10656/3-A

Matrix: Solid

Analysis Batch: 10795

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	250	243.5		mg/Kg		97	90 - 110	3	20

Lab Sample ID: 890-1466-6 MS

Matrix: Solid

Analysis Batch: 10795

Client Sample ID: C-529 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<5.00	U	250	258.3		mg/Kg		102	90 - 110

Lab Sample ID: 890-1466-6 MSD

Matrix: Solid

Analysis Batch: 10795

Client Sample ID: C-529 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	<5.00	U	250	259.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-10657/1-A

Matrix: Solid

Analysis Batch: 10797

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/29/21 01:47	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-10657/2-A

Matrix: Solid

Analysis Batch: 10797

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	257.3		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-10657/3-A

Matrix: Solid

Analysis Batch: 10797

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	255.7		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-1466-24 MS

Matrix: Solid

Analysis Batch: 10797

Client Sample ID: C-487 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	405	F1	250	644.2		mg/Kg		96	90 - 110

Lab Sample ID: 890-1466-24 MSD

Matrix: Solid

Analysis Batch: 10797

Client Sample ID: C-487 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	405	F1	250	591.0	F1	mg/Kg		74	90 - 110	9	20

Lab Sample ID: MB 880-10658/1-A

Matrix: Solid

Analysis Batch: 10798

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/28/21 18:09	1

Lab Sample ID: LCS 880-10658/2-A

Matrix: Solid

Analysis Batch: 10798

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-10658/3-A

Matrix: Solid

Analysis Batch: 10798

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1466-41 MS

Matrix: Solid

Analysis Batch: 10798

Client Sample ID: C-1239

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	711	F1	250	924.0	F1	mg/Kg		85	90 - 110

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1466-41 MSD

Client Sample ID: C-1239

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 10798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	711	F1	250	921.7	F1	mg/Kg		84	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

GC VOA

Prep Batch: 10198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10198/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 10403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-41	C-1239	Total/NA	Solid	8021B	10432
890-1466-42	C-1240	Total/NA	Solid	8021B	10432
890-1466-43	C-1241	Total/NA	Solid	8021B	10432
890-1466-44	C-1242	Total/NA	Solid	8021B	10432
890-1466-45	C-1243	Total/NA	Solid	8021B	10432
890-1466-46	C-1244	Total/NA	Solid	8021B	10432
890-1466-47	C-1245	Total/NA	Solid	8021B	10432
890-1466-48	C-1246	Total/NA	Solid	8021B	10432
MB 880-10198/5-A	Method Blank	Total/NA	Solid	8021B	10198
MB 880-10432/5-A	Method Blank	Total/NA	Solid	8021B	10432
LCS 880-10432/1-A	Lab Control Sample	Total/NA	Solid	8021B	10432
LCSD 880-10432/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10432
880-7440-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	10432
880-7440-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	10432

Prep Batch: 10432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-41	C-1239	Total/NA	Solid	5035	
890-1466-42	C-1240	Total/NA	Solid	5035	
890-1466-43	C-1241	Total/NA	Solid	5035	
890-1466-44	C-1242	Total/NA	Solid	5035	
890-1466-45	C-1243	Total/NA	Solid	5035	
890-1466-46	C-1244	Total/NA	Solid	5035	
890-1466-47	C-1245	Total/NA	Solid	5035	
890-1466-48	C-1246	Total/NA	Solid	5035	
MB 880-10432/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10432/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10432/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7440-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-7440-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 10434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-1	C-648 2.5'	Total/NA	Solid	5035	
890-1466-2	C-638 2.5'	Total/NA	Solid	5035	
890-1466-3	C-635 2.5'	Total/NA	Solid	5035	
890-1466-4	C-538 2.5'	Total/NA	Solid	5035	
890-1466-5	C-531 2.5'	Total/NA	Solid	5035	
890-1466-6	C-529 2.5'	Total/NA	Solid	5035	
890-1466-7	C-522 2.5'	Total/NA	Solid	5035	
890-1466-8	C-521 2.5'	Total/NA	Solid	5035	
890-1466-9	C-518 2.5'	Total/NA	Solid	5035	
890-1466-10	C-505 2.5'	Total/NA	Solid	5035	
890-1466-11	C-512 2.5'	Total/NA	Solid	5035	
890-1466-12	C-473 2.5'	Total/NA	Solid	5035	
890-1466-13	C-492 2.5'	Total/NA	Solid	5035	
890-1466-14	C-486 2.5'	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 10434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-15	C-500 2.5'	Total/NA	Solid	5035	
890-1466-16	C-495 2.5'	Total/NA	Solid	5035	
890-1466-17	C-481 2.5'	Total/NA	Solid	5035	
890-1466-18	C-507 2.5'	Total/NA	Solid	5035	
890-1466-19	C-501 2.5'	Total/NA	Solid	5035	
890-1466-20	C-511 2.5'	Total/NA	Solid	5035	
MB 880-10434/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10434/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10434/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1466-1 MS	C-648 2.5'	Total/NA	Solid	5035	
890-1466-1 MSD	C-648 2.5'	Total/NA	Solid	5035	

Prep Batch: 10435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-21	C-517 2.5'	Total/NA	Solid	5035	
890-1466-22	C-528 2.5'	Total/NA	Solid	5035	
890-1466-23	C-526 2.5'	Total/NA	Solid	5035	
890-1466-24	C-487 2.5'	Total/NA	Solid	5035	
890-1466-25	C-1224	Total/NA	Solid	5035	
890-1466-26	C-1225	Total/NA	Solid	5035	
890-1466-27	C-1200	Total/NA	Solid	5035	
890-1466-28	C-1226	Total/NA	Solid	5035	
890-1466-29	C-1227	Total/NA	Solid	5035	
890-1466-30	C-1228	Total/NA	Solid	5035	
890-1466-31	C-1229	Total/NA	Solid	5035	
890-1466-32	C-1230	Total/NA	Solid	5035	
890-1466-33	C-1231	Total/NA	Solid	5035	
890-1466-34	C-1232	Total/NA	Solid	5035	
890-1466-35	C-1233	Total/NA	Solid	5035	
890-1466-36	C-1234	Total/NA	Solid	5035	
890-1466-37	C-1235	Total/NA	Solid	5035	
890-1466-38	C-1236	Total/NA	Solid	5035	
890-1466-39	C-1237	Total/NA	Solid	5035	
890-1466-40	C-1238	Total/NA	Solid	5035	
MB 880-10435/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10435/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10435/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1466-21 MS	C-517 2.5'	Total/NA	Solid	5035	
890-1466-21 MSD	C-517 2.5'	Total/NA	Solid	5035	

Analysis Batch: 10673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-1	C-648 2.5'	Total/NA	Solid	8021B	10434
890-1466-2	C-638 2.5'	Total/NA	Solid	8021B	10434
890-1466-3	C-635 2.5'	Total/NA	Solid	8021B	10434
890-1466-4	C-538 2.5'	Total/NA	Solid	8021B	10434
890-1466-5	C-531 2.5'	Total/NA	Solid	8021B	10434
890-1466-6	C-529 2.5'	Total/NA	Solid	8021B	10434
890-1466-7	C-522 2.5'	Total/NA	Solid	8021B	10434
890-1466-8	C-521 2.5'	Total/NA	Solid	8021B	10434
890-1466-9	C-518 2.5'	Total/NA	Solid	8021B	10434

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 10673 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-10	C-505 2.5'	Total/NA	Solid	8021B	10434
890-1466-11	C-512 2.5'	Total/NA	Solid	8021B	10434
890-1466-12	C-473 2.5'	Total/NA	Solid	8021B	10434
890-1466-13	C-492 2.5'	Total/NA	Solid	8021B	10434
890-1466-14	C-486 2.5'	Total/NA	Solid	8021B	10434
890-1466-15	C-500 2.5'	Total/NA	Solid	8021B	10434
890-1466-16	C-495 2.5'	Total/NA	Solid	8021B	10434
890-1466-17	C-481 2.5'	Total/NA	Solid	8021B	10434
890-1466-18	C-507 2.5'	Total/NA	Solid	8021B	10434
890-1466-19	C-501 2.5'	Total/NA	Solid	8021B	10434
890-1466-20	C-511 2.5'	Total/NA	Solid	8021B	10434
MB 880-10434/5-A	Method Blank	Total/NA	Solid	8021B	10434
LCS 880-10434/1-A	Lab Control Sample	Total/NA	Solid	8021B	10434
LCSD 880-10434/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10434
890-1466-1 MS	C-648 2.5'	Total/NA	Solid	8021B	10434
890-1466-1 MSD	C-648 2.5'	Total/NA	Solid	8021B	10434

Analysis Batch: 10683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-21	C-517 2.5'	Total/NA	Solid	8021B	10435
890-1466-22	C-528 2.5'	Total/NA	Solid	8021B	10435
890-1466-23	C-526 2.5'	Total/NA	Solid	8021B	10435
890-1466-24	C-487 2.5'	Total/NA	Solid	8021B	10435
890-1466-25	C-1224	Total/NA	Solid	8021B	10435
890-1466-26	C-1225	Total/NA	Solid	8021B	10435
890-1466-27	C-1200	Total/NA	Solid	8021B	10435
890-1466-28	C-1226	Total/NA	Solid	8021B	10435
890-1466-29	C-1227	Total/NA	Solid	8021B	10435
890-1466-30	C-1228	Total/NA	Solid	8021B	10435
890-1466-31	C-1229	Total/NA	Solid	8021B	10435
890-1466-32	C-1230	Total/NA	Solid	8021B	10435
890-1466-33	C-1231	Total/NA	Solid	8021B	10435
890-1466-34	C-1232	Total/NA	Solid	8021B	10435
890-1466-35	C-1233	Total/NA	Solid	8021B	10435
890-1466-36	C-1234	Total/NA	Solid	8021B	10435
890-1466-37	C-1235	Total/NA	Solid	8021B	10435
890-1466-38	C-1236	Total/NA	Solid	8021B	10435
890-1466-39	C-1237	Total/NA	Solid	8021B	10435
890-1466-40	C-1238	Total/NA	Solid	8021B	10435
MB 880-10435/5-A	Method Blank	Total/NA	Solid	8021B	10435
LCS 880-10435/1-A	Lab Control Sample	Total/NA	Solid	8021B	10435
LCSD 880-10435/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10435
890-1466-21 MS	C-517 2.5'	Total/NA	Solid	8021B	10435
890-1466-21 MSD	C-517 2.5'	Total/NA	Solid	8021B	10435

Analysis Batch: 10986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-1	C-648 2.5'	Total/NA	Solid	Total BTEX	
890-1466-2	C-638 2.5'	Total/NA	Solid	Total BTEX	
890-1466-3	C-635 2.5'	Total/NA	Solid	Total BTEX	
890-1466-4	C-538 2.5'	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 10986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-5	C-531 2.5'	Total/NA	Solid	Total BTEX	
890-1466-6	C-529 2.5'	Total/NA	Solid	Total BTEX	
890-1466-7	C-522 2.5'	Total/NA	Solid	Total BTEX	
890-1466-8	C-521 2.5'	Total/NA	Solid	Total BTEX	
890-1466-9	C-518 2.5'	Total/NA	Solid	Total BTEX	
890-1466-10	C-505 2.5'	Total/NA	Solid	Total BTEX	
890-1466-11	C-512 2.5'	Total/NA	Solid	Total BTEX	
890-1466-12	C-473 2.5'	Total/NA	Solid	Total BTEX	
890-1466-13	C-492 2.5'	Total/NA	Solid	Total BTEX	
890-1466-14	C-486 2.5'	Total/NA	Solid	Total BTEX	
890-1466-15	C-500 2.5'	Total/NA	Solid	Total BTEX	
890-1466-16	C-495 2.5'	Total/NA	Solid	Total BTEX	
890-1466-17	C-481 2.5'	Total/NA	Solid	Total BTEX	
890-1466-18	C-507 2.5'	Total/NA	Solid	Total BTEX	
890-1466-19	C-501 2.5'	Total/NA	Solid	Total BTEX	
890-1466-20	C-511 2.5'	Total/NA	Solid	Total BTEX	
890-1466-21	C-517 2.5'	Total/NA	Solid	Total BTEX	
890-1466-22	C-528 2.5'	Total/NA	Solid	Total BTEX	
890-1466-23	C-526 2.5'	Total/NA	Solid	Total BTEX	
890-1466-24	C-487 2.5'	Total/NA	Solid	Total BTEX	
890-1466-25	C-1224	Total/NA	Solid	Total BTEX	
890-1466-26	C-1225	Total/NA	Solid	Total BTEX	
890-1466-27	C-1200	Total/NA	Solid	Total BTEX	
890-1466-28	C-1226	Total/NA	Solid	Total BTEX	
890-1466-29	C-1227	Total/NA	Solid	Total BTEX	
890-1466-30	C-1228	Total/NA	Solid	Total BTEX	
890-1466-31	C-1229	Total/NA	Solid	Total BTEX	
890-1466-32	C-1230	Total/NA	Solid	Total BTEX	
890-1466-33	C-1231	Total/NA	Solid	Total BTEX	
890-1466-34	C-1232	Total/NA	Solid	Total BTEX	
890-1466-35	C-1233	Total/NA	Solid	Total BTEX	
890-1466-36	C-1234	Total/NA	Solid	Total BTEX	
890-1466-37	C-1235	Total/NA	Solid	Total BTEX	
890-1466-38	C-1236	Total/NA	Solid	Total BTEX	
890-1466-39	C-1237	Total/NA	Solid	Total BTEX	
890-1466-40	C-1238	Total/NA	Solid	Total BTEX	
890-1466-41	C-1239	Total/NA	Solid	Total BTEX	
890-1466-42	C-1240	Total/NA	Solid	Total BTEX	
890-1466-43	C-1241	Total/NA	Solid	Total BTEX	
890-1466-44	C-1242	Total/NA	Solid	Total BTEX	
890-1466-45	C-1243	Total/NA	Solid	Total BTEX	
890-1466-46	C-1244	Total/NA	Solid	Total BTEX	
890-1466-47	C-1245	Total/NA	Solid	Total BTEX	
890-1466-48	C-1246	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 10676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-1	C-648 2.5'	Total/NA	Solid	8015 NM	
890-1466-2	C-638 2.5'	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 10676 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-3	C-635 2.5'	Total/NA	Solid	8015 NM	
890-1466-4	C-538 2.5'	Total/NA	Solid	8015 NM	
890-1466-5	C-531 2.5'	Total/NA	Solid	8015 NM	
890-1466-6	C-529 2.5'	Total/NA	Solid	8015 NM	
890-1466-7	C-522 2.5'	Total/NA	Solid	8015 NM	
890-1466-8	C-521 2.5'	Total/NA	Solid	8015 NM	
890-1466-9	C-518 2.5'	Total/NA	Solid	8015 NM	
890-1466-10	C-505 2.5'	Total/NA	Solid	8015 NM	
890-1466-11	C-512 2.5'	Total/NA	Solid	8015 NM	
890-1466-12	C-473 2.5'	Total/NA	Solid	8015 NM	
890-1466-13	C-492 2.5'	Total/NA	Solid	8015 NM	
890-1466-14	C-486 2.5'	Total/NA	Solid	8015 NM	
890-1466-15	C-500 2.5'	Total/NA	Solid	8015 NM	
890-1466-16	C-495 2.5'	Total/NA	Solid	8015 NM	
890-1466-17	C-481 2.5'	Total/NA	Solid	8015 NM	
890-1466-18	C-507 2.5'	Total/NA	Solid	8015 NM	
890-1466-19	C-501 2.5'	Total/NA	Solid	8015 NM	
890-1466-20	C-511 2.5'	Total/NA	Solid	8015 NM	
890-1466-21	C-517 2.5'	Total/NA	Solid	8015 NM	
890-1466-22	C-528 2.5'	Total/NA	Solid	8015 NM	
890-1466-23	C-526 2.5'	Total/NA	Solid	8015 NM	
890-1466-24	C-487 2.5'	Total/NA	Solid	8015 NM	
890-1466-25	C-1224	Total/NA	Solid	8015 NM	
890-1466-26	C-1225	Total/NA	Solid	8015 NM	
890-1466-27	C-1200	Total/NA	Solid	8015 NM	
890-1466-28	C-1226	Total/NA	Solid	8015 NM	
890-1466-29	C-1227	Total/NA	Solid	8015 NM	
890-1466-30	C-1228	Total/NA	Solid	8015 NM	
890-1466-31	C-1229	Total/NA	Solid	8015 NM	
890-1466-32	C-1230	Total/NA	Solid	8015 NM	
890-1466-33	C-1231	Total/NA	Solid	8015 NM	
890-1466-34	C-1232	Total/NA	Solid	8015 NM	
890-1466-35	C-1233	Total/NA	Solid	8015 NM	
890-1466-36	C-1234	Total/NA	Solid	8015 NM	
890-1466-37	C-1235	Total/NA	Solid	8015 NM	
890-1466-38	C-1236	Total/NA	Solid	8015 NM	
890-1466-39	C-1237	Total/NA	Solid	8015 NM	
890-1466-40	C-1238	Total/NA	Solid	8015 NM	
890-1466-41	C-1239	Total/NA	Solid	8015 NM	
890-1466-42	C-1240	Total/NA	Solid	8015 NM	
890-1466-43	C-1241	Total/NA	Solid	8015 NM	
890-1466-44	C-1242	Total/NA	Solid	8015 NM	
890-1466-45	C-1243	Total/NA	Solid	8015 NM	
890-1466-46	C-1244	Total/NA	Solid	8015 NM	
890-1466-47	C-1245	Total/NA	Solid	8015 NM	
890-1466-48	C-1246	Total/NA	Solid	8015 NM	

Analysis Batch: 10804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-21	C-517 2.5'	Total/NA	Solid	8015B NM	10823
890-1466-22	C-528 2.5'	Total/NA	Solid	8015B NM	10823

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 10804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-23	C-526 2.5'	Total/NA	Solid	8015B NM	10823
890-1466-24	C-487 2.5'	Total/NA	Solid	8015B NM	10823
890-1466-25	C-1224	Total/NA	Solid	8015B NM	10823
890-1466-26	C-1225	Total/NA	Solid	8015B NM	10823
890-1466-27	C-1200	Total/NA	Solid	8015B NM	10823
890-1466-28	C-1226	Total/NA	Solid	8015B NM	10823
890-1466-29	C-1227	Total/NA	Solid	8015B NM	10823
890-1466-30	C-1228	Total/NA	Solid	8015B NM	10823
890-1466-31	C-1229	Total/NA	Solid	8015B NM	10823
890-1466-32	C-1230	Total/NA	Solid	8015B NM	10823
890-1466-33	C-1231	Total/NA	Solid	8015B NM	10823
890-1466-34	C-1232	Total/NA	Solid	8015B NM	10823
890-1466-35	C-1233	Total/NA	Solid	8015B NM	10823
890-1466-36	C-1234	Total/NA	Solid	8015B NM	10823
890-1466-37	C-1235	Total/NA	Solid	8015B NM	10823
890-1466-38	C-1236	Total/NA	Solid	8015B NM	10823
890-1466-39	C-1237	Total/NA	Solid	8015B NM	10823
MB 880-10823/1-A	Method Blank	Total/NA	Solid	8015B NM	10823
LCS 880-10823/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10823
LCSD 880-10823/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10823
890-1460-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	10823
890-1460-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10823

Prep Batch: 10823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-21	C-517 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-22	C-528 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-23	C-526 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-24	C-487 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-25	C-1224	Total/NA	Solid	8015NM Prep	
890-1466-26	C-1225	Total/NA	Solid	8015NM Prep	
890-1466-27	C-1200	Total/NA	Solid	8015NM Prep	
890-1466-28	C-1226	Total/NA	Solid	8015NM Prep	
890-1466-29	C-1227	Total/NA	Solid	8015NM Prep	
890-1466-30	C-1228	Total/NA	Solid	8015NM Prep	
890-1466-31	C-1229	Total/NA	Solid	8015NM Prep	
890-1466-32	C-1230	Total/NA	Solid	8015NM Prep	
890-1466-33	C-1231	Total/NA	Solid	8015NM Prep	
890-1466-34	C-1232	Total/NA	Solid	8015NM Prep	
890-1466-35	C-1233	Total/NA	Solid	8015NM Prep	
890-1466-36	C-1234	Total/NA	Solid	8015NM Prep	
890-1466-37	C-1235	Total/NA	Solid	8015NM Prep	
890-1466-38	C-1236	Total/NA	Solid	8015NM Prep	
890-1466-39	C-1237	Total/NA	Solid	8015NM Prep	
MB 880-10823/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10823/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10823/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1460-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1460-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 10846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-47	C-1245	Total/NA	Solid	8015NM Prep	
MB 880-10846/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10846/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10846/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1488-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1488-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 10862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-1	C-648 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-2	C-638 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-3	C-635 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-4	C-538 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-5	C-531 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-6	C-529 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-7	C-522 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-8	C-521 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-9	C-518 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-10	C-505 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-11	C-512 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-12	C-473 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-13	C-492 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-14	C-486 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-15	C-500 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-16	C-495 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-17	C-481 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-18	C-507 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-19	C-501 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-20	C-511 2.5'	Total/NA	Solid	8015NM Prep	
MB 880-10862/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10862/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10862/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1466-1 MS	C-648 2.5'	Total/NA	Solid	8015NM Prep	
890-1466-1 MSD	C-648 2.5'	Total/NA	Solid	8015NM Prep	

Prep Batch: 10876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-40	C-1238	Total/NA	Solid	8015NM Prep	
890-1466-41	C-1239	Total/NA	Solid	8015NM Prep	
890-1466-42	C-1240	Total/NA	Solid	8015NM Prep	
890-1466-43	C-1241	Total/NA	Solid	8015NM Prep	
890-1466-44	C-1242	Total/NA	Solid	8015NM Prep	
890-1466-45	C-1243	Total/NA	Solid	8015NM Prep	
890-1466-46	C-1244	Total/NA	Solid	8015NM Prep	
MB 880-10876/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10876/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10876/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1466-40 MS	C-1238	Total/NA	Solid	8015NM Prep	
890-1466-40 MSD	C-1238	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 10885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-47	C-1245	Total/NA	Solid	8015B NM	10846
MB 880-10846/1-A	Method Blank	Total/NA	Solid	8015B NM	10846
LCS 880-10846/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10846
LCSD 880-10846/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10846
890-1488-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	10846
890-1488-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10846

Analysis Batch: 10889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-1	C-648 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-2	C-638 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-3	C-635 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-4	C-538 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-5	C-531 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-6	C-529 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-7	C-522 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-8	C-521 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-9	C-518 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-10	C-505 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-11	C-512 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-12	C-473 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-13	C-492 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-14	C-486 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-15	C-500 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-16	C-495 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-17	C-481 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-18	C-507 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-19	C-501 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-20	C-511 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-40	C-1238	Total/NA	Solid	8015B NM	10876
890-1466-41	C-1239	Total/NA	Solid	8015B NM	10876
890-1466-42	C-1240	Total/NA	Solid	8015B NM	10876
890-1466-43	C-1241	Total/NA	Solid	8015B NM	10876
890-1466-44	C-1242	Total/NA	Solid	8015B NM	10876
890-1466-45	C-1243	Total/NA	Solid	8015B NM	10876
890-1466-46	C-1244	Total/NA	Solid	8015B NM	10876
MB 880-10862/1-A	Method Blank	Total/NA	Solid	8015B NM	10862
MB 880-10876/1-A	Method Blank	Total/NA	Solid	8015B NM	10876
LCS 880-10862/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10862
LCS 880-10876/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10876
LCSD 880-10862/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10862
LCSD 880-10876/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10876
890-1466-1 MS	C-648 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-1 MSD	C-648 2.5'	Total/NA	Solid	8015B NM	10862
890-1466-40 MS	C-1238	Total/NA	Solid	8015B NM	10876
890-1466-40 MSD	C-1238	Total/NA	Solid	8015B NM	10876

Prep Batch: 10924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-48	C-1246	Total/NA	Solid	8015NM Prep	
MB 880-10924/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 10924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-10924/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7518-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-7518-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-48	C-1246	Total/NA	Solid	8015B NM	10924
MB 880-10924/1-A	Method Blank	Total/NA	Solid	8015B NM	10924
LCS 880-10924/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10924
LCSD 880-10924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10924
880-7518-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	10924
880-7518-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10924

HPLC/IC

Leach Batch: 10656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-1	C-648 2.5'	Soluble	Solid	DI Leach	
890-1466-2	C-638 2.5'	Soluble	Solid	DI Leach	
890-1466-3	C-635 2.5'	Soluble	Solid	DI Leach	
890-1466-4	C-538 2.5'	Soluble	Solid	DI Leach	
890-1466-5	C-531 2.5'	Soluble	Solid	DI Leach	
890-1466-6	C-529 2.5'	Soluble	Solid	DI Leach	
890-1466-7	C-522 2.5'	Soluble	Solid	DI Leach	
890-1466-8	C-521 2.5'	Soluble	Solid	DI Leach	
890-1466-9	C-518 2.5'	Soluble	Solid	DI Leach	
890-1466-10	C-505 2.5'	Soluble	Solid	DI Leach	
890-1466-11	C-512 2.5'	Soluble	Solid	DI Leach	
890-1466-12	C-473 2.5'	Soluble	Solid	DI Leach	
890-1466-13	C-492 2.5'	Soluble	Solid	DI Leach	
890-1466-14	C-486 2.5'	Soluble	Solid	DI Leach	
890-1466-15	C-500 2.5'	Soluble	Solid	DI Leach	
MB 880-10656/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10656/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10656/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1466-6 MS	C-529 2.5'	Soluble	Solid	DI Leach	
890-1466-6 MSD	C-529 2.5'	Soluble	Solid	DI Leach	

Leach Batch: 10657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-16	C-495 2.5'	Soluble	Solid	DI Leach	
890-1466-17	C-481 2.5'	Soluble	Solid	DI Leach	
890-1466-18	C-507 2.5'	Soluble	Solid	DI Leach	
890-1466-19	C-501 2.5'	Soluble	Solid	DI Leach	
890-1466-20	C-511 2.5'	Soluble	Solid	DI Leach	
890-1466-21	C-517 2.5'	Soluble	Solid	DI Leach	
890-1466-22	C-528 2.5'	Soluble	Solid	DI Leach	
890-1466-23	C-526 2.5'	Soluble	Solid	DI Leach	
890-1466-24	C-487 2.5'	Soluble	Solid	DI Leach	
890-1466-25	C-1224	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 10657 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-26	C-1225	Soluble	Solid	DI Leach	
890-1466-27	C-1200	Soluble	Solid	DI Leach	
890-1466-28	C-1226	Soluble	Solid	DI Leach	
890-1466-29	C-1227	Soluble	Solid	DI Leach	
890-1466-30	C-1228	Soluble	Solid	DI Leach	
890-1466-31	C-1229	Soluble	Solid	DI Leach	
890-1466-32	C-1230	Soluble	Solid	DI Leach	
890-1466-33	C-1231	Soluble	Solid	DI Leach	
MB 880-10657/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10657/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10657/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1466-24 MS	C-487 2.5'	Soluble	Solid	DI Leach	
890-1466-24 MSD	C-487 2.5'	Soluble	Solid	DI Leach	

Leach Batch: 10658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-34	C-1232	Soluble	Solid	DI Leach	
890-1466-35	C-1233	Soluble	Solid	DI Leach	
890-1466-36	C-1234	Soluble	Solid	DI Leach	
890-1466-37	C-1235	Soluble	Solid	DI Leach	
890-1466-38	C-1236	Soluble	Solid	DI Leach	
890-1466-39	C-1237	Soluble	Solid	DI Leach	
890-1466-40	C-1238	Soluble	Solid	DI Leach	
890-1466-41	C-1239	Soluble	Solid	DI Leach	
890-1466-42	C-1240	Soluble	Solid	DI Leach	
890-1466-43	C-1241	Soluble	Solid	DI Leach	
890-1466-44	C-1242	Soluble	Solid	DI Leach	
890-1466-45	C-1243	Soluble	Solid	DI Leach	
890-1466-46	C-1244	Soluble	Solid	DI Leach	
890-1466-47	C-1245	Soluble	Solid	DI Leach	
890-1466-48	C-1246	Soluble	Solid	DI Leach	
MB 880-10658/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10658/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10658/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1466-41 MS	C-1239	Soluble	Solid	DI Leach	
890-1466-41 MSD	C-1239	Soluble	Solid	DI Leach	

Analysis Batch: 10795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-1	C-648 2.5'	Soluble	Solid	300.0	10656
890-1466-2	C-638 2.5'	Soluble	Solid	300.0	10656
890-1466-3	C-635 2.5'	Soluble	Solid	300.0	10656
890-1466-4	C-538 2.5'	Soluble	Solid	300.0	10656
890-1466-5	C-531 2.5'	Soluble	Solid	300.0	10656
890-1466-6	C-529 2.5'	Soluble	Solid	300.0	10656
890-1466-7	C-522 2.5'	Soluble	Solid	300.0	10656
890-1466-8	C-521 2.5'	Soluble	Solid	300.0	10656
890-1466-9	C-518 2.5'	Soluble	Solid	300.0	10656
890-1466-10	C-505 2.5'	Soluble	Solid	300.0	10656
890-1466-11	C-512 2.5'	Soluble	Solid	300.0	10656
890-1466-12	C-473 2.5'	Soluble	Solid	300.0	10656

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 10795 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-13	C-492 2.5'	Soluble	Solid	300.0	10656
890-1466-14	C-486 2.5'	Soluble	Solid	300.0	10656
890-1466-15	C-500 2.5'	Soluble	Solid	300.0	10656
MB 880-10656/1-A	Method Blank	Soluble	Solid	300.0	10656
LCS 880-10656/2-A	Lab Control Sample	Soluble	Solid	300.0	10656
LCSD 880-10656/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10656
890-1466-6 MS	C-529 2.5'	Soluble	Solid	300.0	10656
890-1466-6 MSD	C-529 2.5'	Soluble	Solid	300.0	10656

Analysis Batch: 10797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-16	C-495 2.5'	Soluble	Solid	300.0	10657
890-1466-17	C-481 2.5'	Soluble	Solid	300.0	10657
890-1466-18	C-507 2.5'	Soluble	Solid	300.0	10657
890-1466-19	C-501 2.5'	Soluble	Solid	300.0	10657
890-1466-20	C-511 2.5'	Soluble	Solid	300.0	10657
890-1466-21	C-517 2.5'	Soluble	Solid	300.0	10657
890-1466-22	C-528 2.5'	Soluble	Solid	300.0	10657
890-1466-23	C-526 2.5'	Soluble	Solid	300.0	10657
890-1466-24	C-487 2.5'	Soluble	Solid	300.0	10657
890-1466-25	C-1224	Soluble	Solid	300.0	10657
890-1466-26	C-1225	Soluble	Solid	300.0	10657
890-1466-27	C-1200	Soluble	Solid	300.0	10657
890-1466-28	C-1226	Soluble	Solid	300.0	10657
890-1466-29	C-1227	Soluble	Solid	300.0	10657
890-1466-30	C-1228	Soluble	Solid	300.0	10657
890-1466-31	C-1229	Soluble	Solid	300.0	10657
890-1466-32	C-1230	Soluble	Solid	300.0	10657
890-1466-33	C-1231	Soluble	Solid	300.0	10657
MB 880-10657/1-A	Method Blank	Soluble	Solid	300.0	10657
LCS 880-10657/2-A	Lab Control Sample	Soluble	Solid	300.0	10657
LCSD 880-10657/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10657
890-1466-24 MS	C-487 2.5'	Soluble	Solid	300.0	10657
890-1466-24 MSD	C-487 2.5'	Soluble	Solid	300.0	10657

Analysis Batch: 10798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-34	C-1232	Soluble	Solid	300.0	10658
890-1466-35	C-1233	Soluble	Solid	300.0	10658
890-1466-36	C-1234	Soluble	Solid	300.0	10658
890-1466-37	C-1235	Soluble	Solid	300.0	10658
890-1466-38	C-1236	Soluble	Solid	300.0	10658
890-1466-39	C-1237	Soluble	Solid	300.0	10658
890-1466-40	C-1238	Soluble	Solid	300.0	10658
890-1466-41	C-1239	Soluble	Solid	300.0	10658
890-1466-42	C-1240	Soluble	Solid	300.0	10658
890-1466-43	C-1241	Soluble	Solid	300.0	10658
890-1466-44	C-1242	Soluble	Solid	300.0	10658
890-1466-45	C-1243	Soluble	Solid	300.0	10658
890-1466-46	C-1244	Soluble	Solid	300.0	10658
890-1466-47	C-1245	Soluble	Solid	300.0	10658

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 10798 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1466-48	C-1246	Soluble	Solid	300.0	10658
MB 880-10658/1-A	Method Blank	Soluble	Solid	300.0	10658
LCS 880-10658/2-A	Lab Control Sample	Soluble	Solid	300.0	10658
LCSD 880-10658/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10658
890-1466-41 MS	C-1239	Soluble	Solid	300.0	10658
890-1466-41 MSD	C-1239	Soluble	Solid	300.0	10658

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-648 2.5'

Date Collected: 10/18/21 11:47

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1466-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 13:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 11:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 18:51	CH	XEN MID

Client Sample ID: C-638 2.5'

Date Collected: 10/18/21 12:00

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1466-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 13:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 12:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 18:58	CH	XEN MID

Client Sample ID: C-635 2.5'

Date Collected: 10/18/21 12:11

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1466-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 14:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 13:20	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 19:06	CH	XEN MID

Client Sample ID: C-538 2.5'

Date Collected: 10/18/21 13:30

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1466-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 14:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-538 2.5'

Date Collected: 10/18/21 13:30

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1466-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 13:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 19:13	CH	XEN MID

Client Sample ID: C-531 2.5'

Date Collected: 10/18/21 13:31

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1466-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 15:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 14:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 19:20	CH	XEN MID

Client Sample ID: C-529 2.5'

Date Collected: 10/18/21 13:32

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1466-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 15:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 14:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 19:27	CH	XEN MID

Client Sample ID: C-522 2.5'

Date Collected: 10/18/21 13:33

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1466-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 15:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 14:46	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-522 2.5'

Date Collected: 10/18/21 13:33

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1466-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 19:48	CH	XEN MID

Client Sample ID: C-521 2.5'

Date Collected: 10/18/21 13:34

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1466-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 16:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 19:56	CH	XEN MID

Client Sample ID: C-518 2.5'

Date Collected: 10/18/21 13:35

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1466-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 16:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 15:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 20:17	CH	XEN MID

Client Sample ID: C-505 2.5'

Date Collected: 10/18/21 13:36

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1466-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 16:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 15:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 20:24	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-512 2.5'

Lab Sample ID: 890-1466-11

Date Collected: 10/18/21 13:37

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 18:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 16:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 20:31	CH	XEN MID

Client Sample ID: C-473 2.5'

Lab Sample ID: 890-1466-12

Date Collected: 10/18/21 13:38

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 18:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 16:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 20:39	CH	XEN MID

Client Sample ID: C-492 2.5'

Lab Sample ID: 890-1466-13

Date Collected: 10/18/21 13:39

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 18:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 17:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 20:46	CH	XEN MID

Client Sample ID: C-486 2.5'

Lab Sample ID: 890-1466-14

Date Collected: 10/18/21 13:40

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 19:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-486 2.5'

Lab Sample ID: 890-1466-14

Date Collected: 10/18/21 13:40

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 17:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 20:53	CH	XEN MID

Client Sample ID: C-500 2.5'

Lab Sample ID: 890-1466-15

Date Collected: 10/18/21 13:43

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 19:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 17:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10656	10/26/21 17:02	CA	XEN MID
Soluble	Analysis	300.0		1			10795	10/28/21 21:00	CH	XEN MID

Client Sample ID: C-495 2.5'

Lab Sample ID: 890-1466-16

Date Collected: 10/18/21 13:44

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 19:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 02:37	CH	XEN MID

Client Sample ID: C-481 2.5'

Lab Sample ID: 890-1466-17

Date Collected: 10/18/21 13:45

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 20:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 18:41	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-481 2.5'

Lab Sample ID: 890-1466-17

Date Collected: 10/18/21 13:45

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 02:45	CH	XEN MID

Client Sample ID: C-507 2.5'

Lab Sample ID: 890-1466-18

Date Collected: 10/18/21 13:46

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 20:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 19:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 02:52	CH	XEN MID

Client Sample ID: C-501 2.5'

Lab Sample ID: 890-1466-19

Date Collected: 10/18/21 13:47

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 20:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 03:13	CH	XEN MID

Client Sample ID: C-511 2.5'

Lab Sample ID: 890-1466-20

Date Collected: 10/18/21 13:48

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	10434	10/25/21 13:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/27/21 21:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10862	10/28/21 15:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 19:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 03:20	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-517 2.5'

Lab Sample ID: 890-1466-21

Date Collected: 10/18/21 13:44

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 15:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 11:58	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 03:27	CH	XEN MID

Client Sample ID: C-528 2.5'

Lab Sample ID: 890-1466-22

Date Collected: 10/18/21 13:50

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 16:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 12:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 03:35	CH	XEN MID

Client Sample ID: C-526 2.5'

Lab Sample ID: 890-1466-23

Date Collected: 10/18/21 13:51

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 16:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 12:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 03:42	CH	XEN MID

Client Sample ID: C-487 2.5'

Lab Sample ID: 890-1466-24

Date Collected: 10/18/21 13:52

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 16:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-487 2.5'

Lab Sample ID: 890-1466-24

Date Collected: 10/18/21 13:52

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 12:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 03:49	CH	XEN MID

Client Sample ID: C-1224

Lab Sample ID: 890-1466-25

Date Collected: 10/18/21 13:53

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 17:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 13:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 04:11	CH	XEN MID

Client Sample ID: C-1225

Lab Sample ID: 890-1466-26

Date Collected: 10/18/21 13:54

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 17:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 13:40	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 04:18	CH	XEN MID

Client Sample ID: C-1200

Lab Sample ID: 890-1466-27

Date Collected: 10/20/21 10:30

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 18:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 14:00	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1200

Lab Sample ID: 890-1466-27

Date Collected: 10/20/21 10:30

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 04:39	CH	XEN MID

Client Sample ID: C-1226

Lab Sample ID: 890-1466-28

Date Collected: 10/20/21 13:00

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 18:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 14:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 04:46	CH	XEN MID

Client Sample ID: C-1227

Lab Sample ID: 890-1466-29

Date Collected: 10/20/21 13:01

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 18:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 14:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 04:53	CH	XEN MID

Client Sample ID: C-1228

Lab Sample ID: 890-1466-30

Date Collected: 10/20/21 13:02

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 19:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 15:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 05:01	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1229

Lab Sample ID: 890-1466-31

Date Collected: 10/20/21 13:03

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 20:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 15:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 05:08	CH	XEN MID

Client Sample ID: C-1230

Lab Sample ID: 890-1466-32

Date Collected: 10/20/21 13:04

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 20:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 16:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 05:15	CH	XEN MID

Client Sample ID: C-1231

Lab Sample ID: 890-1466-33

Date Collected: 10/20/21 13:05

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 21:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 16:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10657	10/26/21 17:05	CA	XEN MID
Soluble	Analysis	300.0		1			10797	10/29/21 05:22	CH	XEN MID

Client Sample ID: C-1232

Lab Sample ID: 890-1466-34

Date Collected: 10/20/21 13:06

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 21:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1232

Lab Sample ID: 890-1466-34

Date Collected: 10/20/21 13:06

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 16:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/28/21 18:55	CH	XEN MID

Client Sample ID: C-1233

Lab Sample ID: 890-1466-35

Date Collected: 10/20/21 13:07

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 21:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 17:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/28/21 19:01	CH	XEN MID

Client Sample ID: C-1234

Lab Sample ID: 890-1466-36

Date Collected: 10/20/21 13:08

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 22:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 17:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/28/21 19:19	CH	XEN MID

Client Sample ID: C-1235

Lab Sample ID: 890-1466-37

Date Collected: 10/20/21 13:09

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 22:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 17:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1235

Lab Sample ID: 890-1466-37

Date Collected: 10/20/21 13:09

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/28/21 19:25	CH	XEN MID

Client Sample ID: C-1236

Lab Sample ID: 890-1466-38

Date Collected: 10/20/21 13:10

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 22:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 18:16	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/28/21 19:31	CH	XEN MID

Client Sample ID: C-1237

Lab Sample ID: 890-1466-39

Date Collected: 10/20/21 13:11

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 23:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10823	10/28/21 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10804	10/28/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/28/21 19:37	CH	XEN MID

Client Sample ID: C-1238

Lab Sample ID: 890-1466-40

Date Collected: 10/20/21 13:12

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	10435	10/25/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10683	10/27/21 23:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10876	10/28/21 16:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 21:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/28/21 19:42	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1239

Lab Sample ID: 890-1466-41

Date Collected: 10/20/21 13:13

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10432	10/25/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10403	10/27/21 06:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10876	10/28/21 16:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 22:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/28/21 19:48	CH	XEN MID

Client Sample ID: C-1240

Lab Sample ID: 890-1466-42

Date Collected: 10/20/21 13:14

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10432	10/25/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10403	10/27/21 06:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10876	10/28/21 16:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 22:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/28/21 20:06	CH	XEN MID

Client Sample ID: C-1241

Lab Sample ID: 890-1466-43

Date Collected: 10/20/21 13:15

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	10432	10/25/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10403	10/27/21 07:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10876	10/28/21 16:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 23:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/28/21 20:12	CH	XEN MID

Client Sample ID: C-1242

Lab Sample ID: 890-1466-44

Date Collected: 10/20/21 13:16

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10432	10/25/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10403	10/27/21 07:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1242

Lab Sample ID: 890-1466-44

Date Collected: 10/20/21 13:16

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10876	10/28/21 16:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 23:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/28/21 20:29	CH	XEN MID

Client Sample ID: C-1243

Lab Sample ID: 890-1466-45

Date Collected: 10/20/21 13:17

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	10432	10/25/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10403	10/27/21 08:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10876	10/28/21 16:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/29/21 23:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/28/21 20:35	CH	XEN MID

Client Sample ID: C-1244

Lab Sample ID: 890-1466-46

Date Collected: 10/20/21 13:18

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10432	10/25/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10403	10/27/21 08:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10876	10/28/21 16:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10889	10/30/21 00:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/29/21 08:11	CH	XEN MID

Client Sample ID: C-1245

Lab Sample ID: 890-1466-47

Date Collected: 10/20/21 13:19

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10432	10/25/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10403	10/27/21 09:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10846	10/28/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10885	10/29/21 18:59	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Client Sample ID: C-1245

Lab Sample ID: 890-1466-47

Date Collected: 10/20/21 13:19

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/29/21 08:17	CH	XEN MID

Client Sample ID: C-1246

Lab Sample ID: 890-1466-48

Date Collected: 10/20/21 13:20

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	10432	10/25/21 13:56	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10403	10/27/21 09:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10924	10/29/21 11:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10998	10/30/21 19:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/29/21 08:23	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1466-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1466-1	C-648 2.5'	Solid	10/18/21 11:47	10/21/21 14:36
890-1466-2	C-638 2.5'	Solid	10/18/21 12:00	10/21/21 14:36
890-1466-3	C-635 2.5'	Solid	10/18/21 12:11	10/21/21 14:36
890-1466-4	C-538 2.5'	Solid	10/18/21 13:30	10/21/21 14:36
890-1466-5	C-531 2.5'	Solid	10/18/21 13:31	10/21/21 14:36
890-1466-6	C-529 2.5'	Solid	10/18/21 13:32	10/21/21 14:36
890-1466-7	C-522 2.5'	Solid	10/18/21 13:33	10/21/21 14:36
890-1466-8	C-521 2.5'	Solid	10/18/21 13:34	10/21/21 14:36
890-1466-9	C-518 2.5'	Solid	10/18/21 13:35	10/21/21 14:36
890-1466-10	C-505 2.5'	Solid	10/18/21 13:36	10/21/21 14:36
890-1466-11	C-512 2.5'	Solid	10/18/21 13:37	10/21/21 14:36
890-1466-12	C-473 2.5'	Solid	10/18/21 13:38	10/21/21 14:36
890-1466-13	C-492 2.5'	Solid	10/18/21 13:39	10/21/21 14:36
890-1466-14	C-486 2.5'	Solid	10/18/21 13:40	10/21/21 14:36
890-1466-15	C-500 2.5'	Solid	10/18/21 13:43	10/21/21 14:36
890-1466-16	C-495 2.5'	Solid	10/18/21 13:44	10/21/21 14:36
890-1466-17	C-481 2.5'	Solid	10/18/21 13:45	10/21/21 14:36
890-1466-18	C-507 2.5'	Solid	10/18/21 13:46	10/21/21 14:36
890-1466-19	C-501 2.5'	Solid	10/18/21 13:47	10/21/21 14:36
890-1466-20	C-511 2.5'	Solid	10/18/21 13:48	10/21/21 14:36
890-1466-21	C-517 2.5'	Solid	10/18/21 13:44	10/21/21 14:36
890-1466-22	C-528 2.5'	Solid	10/18/21 13:50	10/21/21 14:36
890-1466-23	C-526 2.5'	Solid	10/18/21 13:51	10/21/21 14:36
890-1466-24	C-487 2.5'	Solid	10/18/21 13:52	10/21/21 14:36
890-1466-25	C-1224	Solid	10/18/21 13:53	10/21/21 14:36
890-1466-26	C-1225	Solid	10/18/21 13:54	10/21/21 14:36
890-1466-27	C-1200	Solid	10/20/21 10:30	10/21/21 14:36
890-1466-28	C-1226	Solid	10/20/21 13:00	10/21/21 14:36
890-1466-29	C-1227	Solid	10/20/21 13:01	10/21/21 14:36
890-1466-30	C-1228	Solid	10/20/21 13:02	10/21/21 14:36
890-1466-31	C-1229	Solid	10/20/21 13:03	10/21/21 14:36
890-1466-32	C-1230	Solid	10/20/21 13:04	10/21/21 14:36
890-1466-33	C-1231	Solid	10/20/21 13:05	10/21/21 14:36
890-1466-34	C-1232	Solid	10/20/21 13:06	10/21/21 14:36
890-1466-35	C-1233	Solid	10/20/21 13:07	10/21/21 14:36
890-1466-36	C-1234	Solid	10/20/21 13:08	10/21/21 14:36
890-1466-37	C-1235	Solid	10/20/21 13:09	10/21/21 14:36
890-1466-38	C-1236	Solid	10/20/21 13:10	10/21/21 14:36
890-1466-39	C-1237	Solid	10/20/21 13:11	10/21/21 14:36
890-1466-40	C-1238	Solid	10/20/21 13:12	10/21/21 14:36
890-1466-41	C-1239	Solid	10/20/21 13:13	10/21/21 14:36
890-1466-42	C-1240	Solid	10/20/21 13:14	10/21/21 14:36
890-1466-43	C-1241	Solid	10/20/21 13:15	10/21/21 14:36
890-1466-44	C-1242	Solid	10/20/21 13:16	10/21/21 14:36
890-1466-45	C-1243	Solid	10/20/21 13:17	10/21/21 14:36
890-1466-46	C-1244	Solid	10/20/21 13:18	10/21/21 14:36
890-1466-47	C-1245	Solid	10/20/21 13:19	10/21/21 14:36
890-1466-48	C-1246	Solid	10/20/21 13:20	10/21/21 14:36

Marson & Associates, Inc.
Environmental Consultants

890-1466 Chain of Custody



Data Reported to:

DATE: 10/20/21 PAGE 1 OF 4
PO#: LAB WORK ORDER#: 61m10 Ast
PROJECT LOCATION OR NAME: COLLECTOR: TP
LAI PROJECT #: 21-0105-02

CHAIN-OF-CUSTODY

No. 2156

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
						HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE			
L-1147		10/21	1147	S	1					X		
L-1148			1200							X		
L-1149			1211							X		
L-1201			1330							X		
L-1202			1331							X		
L-1203			1332							X		
L-1204			1333							X		
L-1205			1334							X		
L-1206			1335							X		
L-1207			1336							X		
L-1208			1337							X		
L-1209			1338							X		
L-1210			1339							X		
L-1211			1340							X		
L-1212			1343							X		
TOTAL 15												

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
<i>[Signature]</i>	10/21/21		
<i>[Signature]</i>	10/21/21		
<i>[Signature]</i>	10/21/21		

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
<i>[Signature]</i>	10/21/21		
<i>[Signature]</i>	10/21/21		
<i>[Signature]</i>	10/21/21		

LABORATORY	TURN AROUND TIME	LABORATORY USE ONLY:
XenCo	NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐	RECEIVING TEMP: 1.2/1.0 THERM# TW0007 CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☐ NOT USED CARRIER BILL # HAND DELIVERED ☐

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Carson & Associates, Inc.
Environmental Consultants

507 N. Mainfield, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 12/20/21
PO#: _____
PROJECT LOCATION OR NAME: Palmview A3t
LAI PROJECT #: 41-0105-62
COLLECTOR: TP

PAGE 2 OF 4

CHAIN-OF-CUSTODY

No. 2157

12/13/2021 (Rev. 1)

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
						HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE			
C-1215		12/20/21	1344	S	1					X		
C-1216			1345							X		
C-1217			1346							X		
C-1218			1347							X		
C-1219			1348							X		
C-1220			1349							X		
C-1221			1350							X		
C-1222			1351							X		
C-1223			1352							X		
C-1224			1353							X		
C-1225			1354							X		
C-1226		12/20/21	1355							X		
C-1227			1356							X		
C-1228			1357							X		
C-1229			1358							X		
C-1230			1359							X		
C-1231			1360							X		
C-1232			1361							X		
C-1233			1362							X		
TOTAL 15												

RELINQUISHED BY (Signature) [Signature] DATE/TIME 12/21/21

RELINQUISHED BY (Signature) [Signature] DATE/TIME 12/21/21 RECEIVED BY (Signature) [Signature]

RELINQUISHED BY (Signature) [Signature] DATE/TIME 12/21/21 RECEIVED BY (Signature) [Signature]

LABORATORY Kento

TURN AROUND TIME
NORMAL ☒ 1 DAY
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP. _____ THERM# _____
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
CARRIER BILL # _____
☐ HAND DELIVERED

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No. 2158

CHAIN-OF-CUSTODY

Marson & Associates, Inc.
Environmental Consultants

507 N. Marientfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 10/20/21 PAGE 3 OF 4
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmio ASt
LAI PROJECT #: 21-0105-02 COLLECTOR: TP

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
						HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE			
L-1229		10/20/21	1303	S	1					X		
L-1230			1304							X		
L-1231			1305							X		
L-1232			1306							X		
L-1233			1307							X		
L-1234			1308							X		
L-1235			1309							X		
L-1236			1310							X		
L-1237			1311							X		
L-1238			1312							X		
L-1239			1313							X		
L-1240			1314							X		
L-1241			1315							X		
L-1242			1316							X		
L-1243			1317							X		
TOTAL	15											

[illegible]

Chain of Custody Record



eurofins
Environment Testing
America

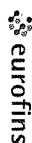
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Client Information (Sub Contract Lab)				Sampler		Lab PM		Carrier Tracking No(s)		COC No	
Client Contact: Shipping/Receiving				Phone:		Taylor Holly		State of Origin New Mexico		Page 1 of 6	
Company Eurofins Xenco				Address 1211 W. Florida Ave 10/27/2021		E-Mail holly.taylor@eurofins.com		Accreditations Required (See note) NELAP - Louisiana NELAP - Texas		Job # 890-1466-1	
City Midland				TAT Requested (days):		Analysis Requested					
State Zip TX 79701				PO #		Field Filtered Sample (Yes or No)					
Phone 432-704-5440(Tel)				WO #		Perform MS/MSD (Yes or No)					
Email				Project # 89000025		8015MOD_NM/8015NM_S_Prep (MOD) Full TPH					
Project Name Pal Mio Ast				SSOW#		8015MOD_Calc					
Site				Sample Date		300_ORGFMM_28D/DI_LEACH Chloride					
Sample Identification - Client ID (Lab ID)				Sample Time		8021B/5035FP_Calc (MOD) BTEX - LL					
C-1197 (890-1466-1)				11 47		Total_BTEX_GCV					
C-1198 (890-1466-2)				12 00		Total Number of containers					
C-1199 (890-1466-3)				12 11		Special Instructions/Note:					
C-1201 (890-1466-4)				13 30		A. HCL					
C-1202 (890-1466-5)				13 31		B. NaOH					
C-1203 (890-1466-6)				13 32		C. Zn Acetate					
C-1204 (890-1466-7)				13 33		D. Nitric Acid					
C-1205 (890-1466-8)				13 34		E. NaHSO4					
C-1206 (890-1466-9)				13 35		F. MeOH					
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.				10/18/21		G. Anchor					
Possible Hazard Identification				Mountain		H. Ascorbic Acid					
Unconfirmed				Solid		I. Ice					
Deliverable Requested I II III IV Other (specify)				Solid		J. DI Water					
Primary Deliverable Rank 2				Solid		K. EDTA					
Special Instructions/QC Requirements				Solid		L. EDA					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				Solid		Other:					
Return To Client				Solid		M. Hexane					
Disposal By Lab				Solid		N. None					
Archive For				Solid		O. AsNaO2					
Months				Solid		P. Na2O4S					
Empty Kit Relinquished by				Solid		Q. Na2SO3					
Relinquished by				Solid		R. Na2S2O3					
Relinquished by				Solid		S. H2SO4					
Relinquished by				Solid		T. TSP Dodecahydrate					
Relinquished by				Solid		U. Acetone					
Relinquished by				Solid		V. MCAA					
Relinquished by				Solid		W. pH 4.5					
Relinquished by				Solid		Z. other (specify)					
Custody Seals Intact				Custody Seal No		Cooler Temperature(s) °C and Other Remarks					
A Yes A No				A Yes A No		3.2/33					

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No 890-475 2
Client Contact				Taylor Holly			Page 2 of 6
Shipping/Receiving				E-Mail holly.taylor@eurofinset.com	Accreditations Required (See note): NELAP - Louisiana NELAP - Texas	State of Origin New Mexico	
Company Eurofins Xenco							Job #: 890-1466-1
Address 1211 W Florida Ave				Due Date Requested 10/27/2021			Preservation Codes
City Midland				TAT Requested (days):			A HCL M Hexane
State Zip TX 79701							B NaOH N None
Phone 432-704-5440(Tel)				PO #:			C Zn Acetate O AsNaO2
Email 432-704-5440(Tel)				WFO #:			D Nitric Acid P Na2OAS
Project Name Pal Mio Ast				Project #: 89000025			E NaHSO4 R Na2S2O3
Site SSOV#.							F MeOH S H2SO4
							G Amchlor T TSP Dodecylhydrate
							H Ice I DI Water U Acetone
							J DI Water V MCAA
							K EDTA W pH 4-5
							L EDA Z other (specify)
							Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, Oil, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested										Total Number of containers	Special Instructions/Note
C-1207 (890-1466-10)	10/18/21	13 36	Mountain	Solid	X	X	8015MOD_NM/8016NM_S_Prep (MOD) Full TPH									1		
C-1208 (890-1466-11)	10/18/21	13 37	Mountain	Solid	X	X	8015MOD_Calc									1		
C-1209 (890-1466-12)	10/18/21	13 38	Mountain	Solid	X	X	300_ORGFM_28D/DI_LEACH Chloride									1		
C-1210 (890-1466-13)	10/18/21	13 39	Mountain	Solid	X	X	8021B/6035FP_Calc (MOD) BTEX - LL									1		
C-1211 (890-1466-14)	10/18/21	13 40	Mountain	Solid	X	X	Total_BTEX_GCV									1		
C-1214 (890-1466-15)	10/18/21	13 43	Mountain	Solid	X	X										1		
C-1215 (890-1466-16)	10/18/21	13 44	Mountain	Solid	X	X										1		
C-1216 (890-1466-17)	10/18/21	13 45	Mountain	Solid	X	X										1		
C-1217 (890-1466-18)	10/18/21	13 46	Mountain	Solid	X	X										1		

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysts/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC Laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				Return To Client Disposal By Lab Archive For _____ Months			
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2				Special Instructions/QAC Requirements.			
Empty Kit Relinquished by		Date	Time	Received by		Date/Time	Method of Shipment
Relinquished by		10/27/21		J. Hame			
Relinquished by		Date/Time:		Received by		Date/Time	
Relinquished by		Date/Time		Received by		Date/Time	
Custody Seals Intact:		Custody Seal No	Cooler Temperature(s) °C and Other Remarks				
Δ Yes Δ No							

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Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:					
Client Contact	Phone	Taylor Holly			890-475-3					
Shipping/Receiving	E-Mail	holly.taylor@eurofins.com	State of Origin		Page 3 of 6					
Company	Accreditations Required (See note)	NEIAP - Louisiana NEIAP - Texas	New Mexico							
Address	Due Date Requested	10/27/2021			Job #					
1211 W Florida Ave	TAT Requested (days):				890-1466-1					
City										
Midland										
State Zip										
TX 79701										
Phone	PO #									
432-704-5440 (Tel)	WO #									
Email	Project #									
	89000025									
Project Name	SSOW#									
Pal Mo Ast										
Site										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=solid, O=Organic, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Preservation Codes	Special Instructions/Note
C-1218 (890-1466-19)	10/18/21	13 47	Mountain	Solid		X	X	X	X	
C-1219 (890-1466-20)	10/18/21	13 48	Mountain	Solid		X	X	X	X	
C-1220 (890-1466-21)	10/18/21	13 44	Mountain	Solid		X	X	X	X	
C-1221 (890-1466-22)	10/18/21	13 50	Mountain	Solid		X	X	X	X	
C-1222 (890-1466-23)	10/18/21	13 51	Mountain	Solid		X	X	X	X	
C-1223 (890-1466-24)	10/18/21	13 52	Mountain	Solid		X	X	X	X	
C-1224 (890-1466-25)	10/18/21	13 53	Mountain	Solid		X	X	X	X	
C-1225 (890-1466-26)	10/18/21	13 54	Mountain	Solid		X	X	X	X	
C-1200 (890-1466-27)	10/20/21	10 30	Mountain	Solid		X	X	X	X	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I II III IV Other (specify)										
Primary Deliverable Rank 2										
Special Instructions/QC Requirements										
Empty Kit Relinquished by										
Date/Time										
Date										
Time										
Method of Shipment										
Relinquished by										
Date/Time										
Company										
Received by										
Date/Time										
Company										
Relinquished by										
Date/Time										
Company										
Custody Seals Intact										
Custody Seal No										
Cooler Temperature(s) °C and Other Remarks										

Eurofins Xenco, Carlsbad

Environment Testing America

Chain of Custody Record

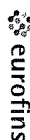
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Client Information (Sub Contract Lab)				Lab PM		Carrier Tracking No(s)		COC No	
Client Contact:		Shipping/Receiving		Phone:		Taylor Holly		890-4754	
Company:		Eurofins Xenco		E-Mail		holly.taylor@eurofinsnet.com		Page 4 of 6	
Address		1211 W Florida Ave		City		Midland		State of Origin	
City		TX 79701		PO #		WFO #		New Mexico	
Phone		432-704-5440(Tel)		Project #		89000025		Job #	
Email		SSOW#		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		890-1466-1	
Project Name:		Pal Mio Ast		Sample Date		Sample Time		Sample Type	
Site		C-1226 (890-1466-28)		10/20/21		13 00		Solid	
		C-1227 (890-1466-29)		10/20/21		13 01		Solid	
		C-1228 (890-1466-30)		10/20/21		13 02		Solid	
		C-1229 (890-1466-31)		10/20/21		13 03		Solid	
		C-1230 (890-1466-32)		10/20/21		13 04		Solid	
		C-1231 (890-1466-33)		10/20/21		13 05		Solid	
		C-1232 (890-1466-34)		10/20/21		13 06		Solid	
		C-1233 (890-1466-35)		10/20/21		13 07		Solid	
		C-1234 (890-1466-36)		10/20/21		13 08		Solid	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte, & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/shipment, being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		☐ Return To Client		☐ Disposal By Lab	
Possible Hazard Identification				Unconfirmed		Deliverable Requested		Primary Deliverable Rank: 2	
Empty Kit Relinquished by				Date		Time		Method of Shipment	
Relinquished by: <i>[Signature]</i>				Date/Time: <i>10/20/21</i>		Company		Received by: <i>[Signature]</i>	
Relinquished by:				Date/Time		Company		Received by:	
Relinquished by:				Date/Time		Company		Received by:	
Custody Seals Intact				Custody Seal No		Cooler Temperature(s) °C and Other Remarks:		Special Instructions/Note	
Δ Yes Δ No				Δ Yes Δ No		Δ Yes Δ No		Δ Yes Δ No	

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



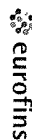
Environment Testing America

[illegible]

Eurofins Xenco, Carlsbad

1009 N. Central St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

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Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1466-1

SDG Number: 21-0105-02

Login Number: 1466**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1466-1

SDG Number: 21-0105-02

Login Number: 1466

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 10/22/21 12:45 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2/3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1465-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST
Revision: 1

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in cursive script that reads "Holly Taylor".

Authorized for release by:
12/13/2021 9:46:25 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1465-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Job ID: 890-1465-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1465-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 11/2/2021. The report (revision 1) is being revised to change sample IDs per Daniel St. Germain (email)..

Receipt

The samples were received on 10/21/2021 2:36 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

Receipt Exceptions

The report was revised to change sample IDs per Daniel St. Germain (email).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-10439 and analytical batch 880-10684 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-1218 0-1.5' (890-1465-1), C-1219 0-1.5' (890-1465-2), C-1220 0-1.5' (890-1465-3), C-1221 0-1.5' (890-1465-4), C-1223 2' (890-1465-6), C-1226 2' (890-1465-9), C-1227 2' (890-1465-10), C-1237 0-2' (890-1465-20), C-1238 0-1.5' (890-1465-21), C-1240 0-2' (890-1465-23) and C-1241 0-1.5' (890-1465-24). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-1228 2' (890-1465-11), C-1229 2' (890-1465-12), C-1230 2' (890-1465-13), C-1234 2' (890-1465-17), C-1235 2' (890-1465-18) and C-1236 2' (890-1465-19). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (MB 880-10863/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-10658 and analytical batch 880-10798 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1218 0-1.5'

Lab Sample ID: 890-1465-1

Date Collected: 10/21/21 08:40

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F2 F1	0.00198	mg/Kg		10/25/21 14:18	10/28/21 05:20	1
Toluene	<0.00198	U F2 F1	0.00198	mg/Kg		10/25/21 14:18	10/28/21 05:20	1
Ethylbenzene	<0.00198	U F2 F1	0.00198	mg/Kg		10/25/21 14:18	10/28/21 05:20	1
m-Xylene & p-Xylene	<0.00396	U F2 F1	0.00396	mg/Kg		10/25/21 14:18	10/28/21 05:20	1
o-Xylene	<0.00198	U F2 F1	0.00198	mg/Kg		10/25/21 14:18	10/28/21 05:20	1
Xylenes, Total	<0.00396	U F2 F1	0.00396	mg/Kg		10/25/21 14:18	10/28/21 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	10/25/21 14:18	10/28/21 05:20	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/25/21 14:18	10/28/21 05:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 11:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 11:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	10/28/21 15:44	10/29/21 11:54	1
o-Terphenyl	109		70 - 130	10/28/21 15:44	10/29/21 11:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224	F1	5.00	mg/Kg			11/01/21 17:06	1

Client Sample ID: C-1219 0-1.5'

Lab Sample ID: 890-1465-2

Date Collected: 10/21/21 08:41

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 05:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 05:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 05:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 14:18	10/28/21 05:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 05:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 14:18	10/28/21 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	10/25/21 14:18	10/28/21 05:46	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/25/21 14:18	10/28/21 05:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1219 0-1.5'

Lab Sample ID: 890-1465-2

Date Collected: 10/21/21 08:41

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 12:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 12:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/28/21 15:44	10/29/21 12:59	1
o-Terphenyl	109		70 - 130			10/28/21 15:44	10/29/21 12:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	291		4.99	mg/Kg			11/01/21 17:27	1

Client Sample ID: C-1220 0-1.5'

Lab Sample ID: 890-1465-3

Date Collected: 10/21/21 08:42

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 06:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 06:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 06:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 14:18	10/28/21 06:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 06:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 14:18	10/28/21 06:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130			10/25/21 14:18	10/28/21 06:12	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/25/21 14:18	10/28/21 06:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 13:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 13:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1220 0-1.5'

Lab Sample ID: 890-1465-3

Date Collected: 10/21/21 08:42

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 13:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/28/21 15:44	10/29/21 13:20	1
o-Terphenyl	109		70 - 130			10/28/21 15:44	10/29/21 13:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	311		4.95	mg/Kg			11/01/21 17:34	1

Client Sample ID: C-1221 0-1.5'

Lab Sample ID: 890-1465-4

Date Collected: 10/21/21 08:43

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 06:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 06:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 06:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 14:18	10/28/21 06:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 06:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 14:18	10/28/21 06:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	214	S1+	70 - 130			10/25/21 14:18	10/28/21 06:38	1
1,4-Difluorobenzene (Surr)	108		70 - 130			10/25/21 14:18	10/28/21 06:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 13:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 13:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 13:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/28/21 15:44	10/29/21 13:41	1
o-Terphenyl	107		70 - 130			10/28/21 15:44	10/29/21 13:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	393		4.99	mg/Kg			11/01/21 17:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1222 2'

Lab Sample ID: 890-1465-5

Date Collected: 10/21/21 10:20

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 07:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 07:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 07:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 14:18	10/28/21 07:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 07:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 14:18	10/28/21 07:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	10/25/21 14:18	10/28/21 07:04	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/25/21 14:18	10/28/21 07:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 15:44	10/29/21 14:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 15:44	10/29/21 14:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 15:44	10/29/21 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	10/28/21 15:44	10/29/21 14:03	1
o-Terphenyl	117		70 - 130	10/28/21 15:44	10/29/21 14:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	383		5.04	mg/Kg			11/01/21 17:49	1

Client Sample ID: C-1223 2'

Lab Sample ID: 890-1465-6

Date Collected: 10/21/21 10:21

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 07:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 07:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 07:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 14:18	10/28/21 07:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 07:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 14:18	10/28/21 07:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	10/25/21 14:18	10/28/21 07:30	1
1,4-Difluorobenzene (Surr)	120		70 - 130	10/25/21 14:18	10/28/21 07:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1223 2'

Lab Sample ID: 890-1465-6

Date Collected: 10/21/21 10:21

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 14:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 14:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			10/28/21 15:44	10/29/21 14:24	1
o-Terphenyl	109		70 - 130			10/28/21 15:44	10/29/21 14:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	826		4.97	mg/Kg			11/01/21 18:10	1

Client Sample ID: C-1224 2'

Lab Sample ID: 890-1465-7

Date Collected: 10/21/21 10:22

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 07:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 07:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 07:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 14:18	10/28/21 07:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 07:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 14:18	10/28/21 07:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			10/25/21 14:18	10/28/21 07:56	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/25/21 14:18	10/28/21 07:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 15:44	10/29/21 14:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 15:44	10/29/21 14:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1224 2'

Lab Sample ID: 890-1465-7

Date Collected: 10/21/21 10:22

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 15:44	10/29/21 14:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			10/28/21 15:44	10/29/21 14:46	1
o-Terphenyl	121		70 - 130			10/28/21 15:44	10/29/21 14:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	867		4.98	mg/Kg			11/01/21 18:17	1

Client Sample ID: C-1225 2'

Lab Sample ID: 890-1465-8

Date Collected: 10/21/21 10:23

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:18	10/28/21 08:22	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:18	10/28/21 08:22	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:18	10/28/21 08:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/25/21 14:18	10/28/21 08:22	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:18	10/28/21 08:22	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/25/21 14:18	10/28/21 08:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			10/25/21 14:18	10/28/21 08:22	1
1,4-Difluorobenzene (Surr)	97		70 - 130			10/25/21 14:18	10/28/21 08:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 15:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/28/21 15:44	10/29/21 15:08	1
o-Terphenyl	93		70 - 130			10/28/21 15:44	10/29/21 15:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		5.00	mg/Kg			11/01/21 18:24	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1226 2'

Lab Sample ID: 890-1465-9

Date Collected: 10/21/21 10:24

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 08:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 08:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 08:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 14:18	10/28/21 08:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 08:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 14:18	10/28/21 08:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	10/25/21 14:18	10/28/21 08:48	1
1,4-Difluorobenzene (Surr)	119		70 - 130	10/25/21 14:18	10/28/21 08:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 15:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 15:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	10/28/21 15:44	10/29/21 15:29	1
o-Terphenyl	113		70 - 130	10/28/21 15:44	10/29/21 15:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		5.00	mg/Kg			11/02/21 11:45	1

Client Sample ID: C-1227 2'

Lab Sample ID: 890-1465-10

Date Collected: 10/21/21 10:25

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 09:14	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 09:14	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 09:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 14:18	10/28/21 09:14	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 09:14	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 14:18	10/28/21 09:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	10/25/21 14:18	10/28/21 09:14	1
1,4-Difluorobenzene (Surr)	112		70 - 130	10/25/21 14:18	10/28/21 09:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1227 2'

Lab Sample ID: 890-1465-10

Date Collected: 10/21/21 10:25

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 15:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 15:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 15:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/28/21 15:44	10/29/21 15:50	1
o-Terphenyl	109		70 - 130			10/28/21 15:44	10/29/21 15:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		4.95	mg/Kg			11/01/21 18:39	1

Client Sample ID: C-1228 2'

Lab Sample ID: 890-1465-11

Date Collected: 10/21/21 10:26

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 11:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 11:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 11:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 14:18	10/28/21 11:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 11:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 14:18	10/28/21 11:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130			10/25/21 14:18	10/28/21 11:02	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/25/21 14:18	10/28/21 11:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 16:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 16:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1228 2'

Lab Sample ID: 890-1465-11

Date Collected: 10/21/21 10:26

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 16:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/28/21 15:44	10/29/21 16:33	1
o-Terphenyl	106		70 - 130			10/28/21 15:44	10/29/21 16:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	717	F1	5.00	mg/Kg			11/01/21 18:46	1

Client Sample ID: C-1229 2'

Lab Sample ID: 890-1465-12

Date Collected: 10/21/21 10:27

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:18	10/28/21 11:29	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:18	10/28/21 11:29	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:18	10/28/21 11:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/25/21 14:18	10/28/21 11:29	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:18	10/28/21 11:29	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/25/21 14:18	10/28/21 11:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			10/25/21 14:18	10/28/21 11:29	1
1,4-Difluorobenzene (Surr)	114		70 - 130			10/25/21 14:18	10/28/21 11:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 16:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 16:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 16:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/28/21 15:44	10/29/21 16:54	1
o-Terphenyl	106		70 - 130			10/28/21 15:44	10/29/21 16:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	967		4.95	mg/Kg			11/01/21 19:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1230 2'

Lab Sample ID: 890-1465-13

Date Collected: 10/21/21 10:28

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:18	10/28/21 11:56	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:18	10/28/21 11:56	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:18	10/28/21 11:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/25/21 14:18	10/28/21 11:56	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/25/21 14:18	10/28/21 11:56	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/25/21 14:18	10/28/21 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	10/25/21 14:18	10/28/21 11:56	1
1,4-Difluorobenzene (Surr)	112		70 - 130	10/25/21 14:18	10/28/21 11:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 17:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 17:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	10/28/21 15:44	10/29/21 17:16	1
o-Terphenyl	86		70 - 130	10/28/21 15:44	10/29/21 17:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2630		25.1	mg/Kg			11/01/21 19:14	5

Client Sample ID: C-1231 2'

Lab Sample ID: 890-1465-14

Date Collected: 10/21/21 10:29

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 12:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 12:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 12:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/25/21 14:18	10/28/21 12:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:18	10/28/21 12:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 14:18	10/28/21 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/25/21 14:18	10/28/21 12:23	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/25/21 14:18	10/28/21 12:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1231 2'

Lab Sample ID: 890-1465-14

Date Collected: 10/21/21 10:29

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 17:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 17:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			10/28/21 15:44	10/29/21 17:37	1
o-Terphenyl	109		70 - 130			10/28/21 15:44	10/29/21 17:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	653		4.99	mg/Kg			11/01/21 19:36	1

Client Sample ID: C-1232 2'

Lab Sample ID: 890-1465-15

Date Collected: 10/21/21 10:30

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:18	10/28/21 12:51	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:18	10/28/21 12:51	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:18	10/28/21 12:51	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/25/21 14:18	10/28/21 12:51	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:18	10/28/21 12:51	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/25/21 14:18	10/28/21 12:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			10/25/21 14:18	10/28/21 12:51	1
1,4-Difluorobenzene (Surr)	117		70 - 130			10/25/21 14:18	10/28/21 12:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 17:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 17:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1232 2'

Lab Sample ID: 890-1465-15

Date Collected: 10/21/21 10:30

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/28/21 15:44	10/29/21 17:58	1
o-Terphenyl	99		70 - 130			10/28/21 15:44	10/29/21 17:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	625		4.98	mg/Kg			11/01/21 19:43	1

Client Sample ID: C-1233 2'

Lab Sample ID: 890-1465-16

Date Collected: 10/21/21 10:31

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 13:19	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 13:19	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 13:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 14:18	10/28/21 13:19	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 13:19	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 14:18	10/28/21 13:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			10/25/21 14:18	10/28/21 13:19	1
1,4-Difluorobenzene (Surr)	114		70 - 130			10/25/21 14:18	10/28/21 13:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 15:44	10/29/21 18:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 15:44	10/29/21 18:20	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 15:44	10/29/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/28/21 15:44	10/29/21 18:20	1
o-Terphenyl	103		70 - 130			10/28/21 15:44	10/29/21 18:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		5.05	mg/Kg			10/29/21 08:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1234 2'

Lab Sample ID: 890-1465-17

Date Collected: 10/21/21 10:32

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 13:46	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 13:46	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 13:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/25/21 14:18	10/28/21 13:46	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/25/21 14:18	10/28/21 13:46	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/25/21 14:18	10/28/21 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	10/25/21 14:18	10/28/21 13:46	1
1,4-Difluorobenzene (Surr)	115		70 - 130	10/25/21 14:18	10/28/21 13:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 18:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	10/28/21 15:44	10/29/21 18:41	1
o-Terphenyl	114		70 - 130	10/28/21 15:44	10/29/21 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	306		4.95	mg/Kg			11/01/21 19:57	1

Client Sample ID: C-1235 2'

Lab Sample ID: 890-1465-18

Date Collected: 10/21/21 10:33

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 14:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 14:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 14:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/25/21 14:18	10/28/21 14:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 14:14	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 14:18	10/28/21 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	10/25/21 14:18	10/28/21 14:14	1
1,4-Difluorobenzene (Surr)	122		70 - 130	10/25/21 14:18	10/28/21 14:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1235 2'

Lab Sample ID: 890-1465-18

Date Collected: 10/21/21 10:33

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 19:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 19:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			10/28/21 15:44	10/29/21 19:02	1
o-Terphenyl	126		70 - 130			10/28/21 15:44	10/29/21 19:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	848		4.99	mg/Kg			11/01/21 20:04	1

Client Sample ID: C-1236 2'

Lab Sample ID: 890-1465-19

Date Collected: 10/21/21 10:34

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:18	10/28/21 14:41	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:18	10/28/21 14:41	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:18	10/28/21 14:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/25/21 14:18	10/28/21 14:41	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/25/21 14:18	10/28/21 14:41	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/25/21 14:18	10/28/21 14:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			10/25/21 14:18	10/28/21 14:41	1
1,4-Difluorobenzene (Surr)	110		70 - 130			10/25/21 14:18	10/28/21 14:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 19:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 19:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1236 2'

Lab Sample ID: 890-1465-19

Date Collected: 10/21/21 10:34

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 15:44	10/29/21 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			10/28/21 15:44	10/29/21 19:23	1
o-Terphenyl	106		70 - 130			10/28/21 15:44	10/29/21 19:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1290		5.00	mg/Kg			11/01/21 20:12	1

Client Sample ID: C-1237 0-2'

Lab Sample ID: 890-1465-20

Date Collected: 10/21/21 12:00

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 15:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 15:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 15:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/25/21 14:18	10/28/21 15:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 15:08	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/25/21 14:18	10/28/21 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130			10/25/21 14:18	10/28/21 15:08	1
1,4-Difluorobenzene (Surr)	122		70 - 130			10/25/21 14:18	10/28/21 15:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 15:44	10/29/21 19:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 15:44	10/29/21 19:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 15:44	10/29/21 19:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/28/21 15:44	10/29/21 19:44	1
o-Terphenyl	107		70 - 130			10/28/21 15:44	10/29/21 19:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		5.00	mg/Kg			11/01/21 20:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1238 0-1.5'

Lab Sample ID: 890-1465-21

Date Collected: 10/21/21 12:01

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:15	10/28/21 00:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:15	10/28/21 00:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:15	10/28/21 00:10	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		10/25/21 14:15	10/28/21 00:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:15	10/28/21 00:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 14:15	10/28/21 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	10/25/21 14:15	10/28/21 00:10	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/25/21 14:15	10/28/21 00:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 14:47	10/29/21 17:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 14:47	10/29/21 17:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 14:47	10/29/21 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	10/28/21 14:47	10/29/21 17:39	1
o-Terphenyl	106		70 - 130	10/28/21 14:47	10/29/21 17:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.95	mg/Kg			11/01/21 21:16	1

Client Sample ID: C-1239 0-1.5'

Lab Sample ID: 890-1465-22

Date Collected: 10/21/21 12:02

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:15	10/28/21 00:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:15	10/28/21 00:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:15	10/28/21 00:36	1
m-Xylene & p-Xylene	<0.00401	U *- *1	0.00401	mg/Kg		10/25/21 14:15	10/28/21 00:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:15	10/28/21 00:36	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/25/21 14:15	10/28/21 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	10/25/21 14:15	10/28/21 00:36	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/25/21 14:15	10/28/21 00:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1239 0-1.5'

Lab Sample ID: 890-1465-22

Date Collected: 10/21/21 12:02

Matrix: Solid

Date Received: 10/21/21 14:36

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/28/21 14:47	10/29/21 17:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/28/21 14:47	10/29/21 17:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/28/21 14:47	10/29/21 17:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/28/21 14:47	10/29/21 17:59	1
o-Terphenyl	105		70 - 130			10/28/21 14:47	10/29/21 17:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224		5.04	mg/Kg			11/01/21 21:37	1

Client Sample ID: C-1240 0-2'

Lab Sample ID: 890-1465-23

Date Collected: 10/21/21 12:03

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:15	10/28/21 01:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:15	10/28/21 01:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:15	10/28/21 01:01	1
m-Xylene & p-Xylene	<0.00399	U * - *1	0.00399	mg/Kg		10/25/21 14:15	10/28/21 01:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:15	10/28/21 01:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/25/21 14:15	10/28/21 01:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			10/25/21 14:15	10/28/21 01:01	1
1,4-Difluorobenzene (Surr)	108		70 - 130			10/25/21 14:15	10/28/21 01:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 14:47	10/29/21 18:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 14:47	10/29/21 18:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1240 0-2'

Lab Sample ID: 890-1465-23

Date Collected: 10/21/21 12:03

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 14:47	10/29/21 18:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/28/21 14:47	10/29/21 18:19	1
o-Terphenyl	94		70 - 130			10/28/21 14:47	10/29/21 18:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.8		4.98	mg/Kg			11/01/21 21:45	1

Client Sample ID: C-1241 0-1.5'

Lab Sample ID: 890-1465-24

Date Collected: 10/21/21 12:04

Matrix: Solid

Date Received: 10/21/21 14:36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:15	10/28/21 01:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:15	10/28/21 01:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:15	10/28/21 01:27	1
m-Xylene & p-Xylene	<0.00398	U * - *1	0.00398	mg/Kg		10/25/21 14:15	10/28/21 01:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/25/21 14:15	10/28/21 01:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/25/21 14:15	10/28/21 01:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130			10/25/21 14:15	10/28/21 01:27	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/25/21 14:15	10/28/21 01:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/01/21 13:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/28/21 14:47	10/29/21 18:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/28/21 14:47	10/29/21 18:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/28/21 14:47	10/29/21 18:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/28/21 14:47	10/29/21 18:39	1
o-Terphenyl	92		70 - 130			10/28/21 14:47	10/29/21 18:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		4.95	mg/Kg			11/01/21 21:52	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1465-1	C-1218 0-1.5'	150 S1+	94
890-1465-1 MS	C-1218 0-1.5'	124	112
890-1465-1 MSD	C-1218 0-1.5'	130	97
890-1465-2	C-1219 0-1.5'	144 S1+	108
890-1465-3	C-1220 0-1.5'	149 S1+	107
890-1465-4	C-1221 0-1.5'	214 S1+	108
890-1465-5	C-1222 2'	124	93
890-1465-6	C-1223 2'	151 S1+	120
890-1465-7	C-1224 2'	112	106
890-1465-8	C-1225 2'	114	97
890-1465-9	C-1226 2'	151 S1+	119
890-1465-10	C-1227 2'	146 S1+	112
890-1465-11	C-1228 2'	150 S1+	102
890-1465-12	C-1229 2'	132 S1+	114
890-1465-13	C-1230 2'	134 S1+	112
890-1465-14	C-1231 2'	108	101
890-1465-15	C-1232 2'	128	117
890-1465-16	C-1233 2'	129	114
890-1465-17	C-1234 2'	138 S1+	115
890-1465-18	C-1235 2'	148 S1+	122
890-1465-19	C-1236 2'	132 S1+	110
890-1465-20	C-1237 0-2'	153 S1+	122
890-1465-21	C-1238 0-1.5'	138 S1+	108
890-1465-22	C-1239 0-1.5'	120	102
890-1465-23	C-1240 0-2'	140 S1+	108
890-1465-24	C-1241 0-1.5'	139 S1+	107
LCS 880-10438/1-A	Lab Control Sample	113	113
LCS 880-10439/1-A	Lab Control Sample	124	104
LCSD 880-10438/2-A	Lab Control Sample Dup	112	111
LCSD 880-10439/2-A	Lab Control Sample Dup	130	110
MB 880-10438/5-A	Method Blank	82	99
MB 880-10439/5-A	Method Blank	83	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-1465-1	C-1218 0-1.5'	111	109
890-1465-1 MS	C-1218 0-1.5'	121	109
890-1465-1 MSD	C-1218 0-1.5'	114	103
890-1465-2	C-1219 0-1.5'	109	109
890-1465-3	C-1220 0-1.5'	109	109
890-1465-4	C-1221 0-1.5'	108	107
890-1465-5	C-1222 2'	121	117

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1465-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1465-6	C-1223 2'	112	109
890-1465-7	C-1224 2'	123	121
890-1465-8	C-1225 2'	98	93
890-1465-9	C-1226 2'	114	113
890-1465-10	C-1227 2'	110	109
890-1465-11	C-1228 2'	107	106
890-1465-12	C-1229 2'	109	106
890-1465-13	C-1230 2'	91	86
890-1465-14	C-1231 2'	113	109
890-1465-15	C-1232 2'	106	99
890-1465-16	C-1233 2'	110	103
890-1465-17	C-1234 2'	121	114
890-1465-18	C-1235 2'	129	126
890-1465-19	C-1236 2'	109	106
890-1465-20	C-1237 0-2'	110	107
890-1465-21	C-1238 0-1.5'	98	106
890-1465-22	C-1239 0-1.5'	98	105
890-1465-23	C-1240 0-2'	93	94
890-1465-24	C-1241 0-1.5'	93	92
890-1488-A-21-C MS	Matrix Spike	101	98
890-1488-A-21-D MSD	Matrix Spike Duplicate	86	83
LCS 880-10846/2-A	Lab Control Sample	104	105
LCS 880-10863/2-A	Lab Control Sample	102	94
LCSD 880-10846/3-A	Lab Control Sample Dup	98	103
LCSD 880-10863/3-A	Lab Control Sample Dup	90	84
MB 880-10846/1-A	Method Blank	96	111
MB 880-10863/1-A	Method Blank	135 S1+	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10438/5-A

Matrix: Solid

Analysis Batch: 10684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10438

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:15	10/27/21 15:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:15	10/27/21 15:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:15	10/27/21 15:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 14:15	10/27/21 15:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:15	10/27/21 15:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 14:15	10/27/21 15:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	10/25/21 14:15	10/27/21 15:08	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/25/21 14:15	10/27/21 15:08	1

Lab Sample ID: LCS 880-10438/1-A

Matrix: Solid

Analysis Batch: 10684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1079		mg/Kg		108	70 - 130
Toluene	0.100	0.1047		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1059		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1232		mg/Kg		123	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-10438/2-A

Matrix: Solid

Analysis Batch: 10684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10438

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1053		mg/Kg		105	70 - 130	2	35
Toluene	0.100	0.1057		mg/Kg		106	70 - 130	1	35
Ethylbenzene	0.100	0.08958		mg/Kg		90	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.1168	*- *1	mg/Kg		58	70 - 130	55	35
o-Xylene	0.100	0.1224		mg/Kg		122	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: MB 880-10439/5-A

Matrix: Solid

Analysis Batch: 10684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10439

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 04:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 04:54	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-10439/5-A

Matrix: Solid

Analysis Batch: 10684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10439

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 04:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 14:18	10/28/21 04:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 14:18	10/28/21 04:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 14:18	10/28/21 04:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	10/25/21 14:18	10/28/21 04:54	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/25/21 14:18	10/28/21 04:54	1

Lab Sample ID: LCS 880-10439/1-A

Matrix: Solid

Analysis Batch: 10684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09524		mg/Kg		95	70 - 130
Toluene	0.100	0.08570		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.1026		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2010		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1144		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-10439/2-A

Matrix: Solid

Analysis Batch: 10684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10439

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1056		mg/Kg		106	70 - 130	10	35
Toluene	0.100	0.1112		mg/Kg		111	70 - 130	26	35
Ethylbenzene	0.100	0.1140		mg/Kg		114	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		110	70 - 130	9	35
o-Xylene	0.100	0.1293		mg/Kg		129	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-1465-1 MS

Matrix: Solid

Analysis Batch: 10684

Client Sample ID: C-1218 0-1.5'

Prep Type: Total/NA

Prep Batch: 10439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F2 F1	0.100	0.02343	F1	mg/Kg		23	70 - 130
Toluene	<0.00198	U F2 F1	0.100	0.02671	F1	mg/Kg		27	70 - 130
Ethylbenzene	<0.00198	U F2 F1	0.100	0.03124	F1	mg/Kg		31	70 - 130
m-Xylene & p-Xylene	<0.00396	U F2 F1	0.201	0.06151	F1	mg/Kg		31	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1465-1 MS

Matrix: Solid

Analysis Batch: 10684

Client Sample ID: C-1218 0-1.5'

Prep Type: Total/NA

Prep Batch: 10439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	<0.00198	U F2 F1	0.100	0.04804	F1	mg/Kg		48	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	124		70 - 130						
1,4-Difluorobenzene (Surr)	112		70 - 130						

Lab Sample ID: 890-1465-1 MSD

Matrix: Solid

Analysis Batch: 10684

Client Sample ID: C-1218 0-1.5'

Prep Type: Total/NA

Prep Batch: 10439

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00198	U F2 F1	0.100	0.05219	F2 F1	mg/Kg		52	70 - 130	76	35
Toluene	<0.00198	U F2 F1	0.100	0.05958	F2 F1	mg/Kg		60	70 - 130	76	35
Ethylbenzene	<0.00198	U F2 F1	0.100	0.06062	F2 F1	mg/Kg		61	70 - 130	64	35
m-Xylene & p-Xylene	<0.00396	U F2 F1	0.200	0.1228	F2 F1	mg/Kg		61	70 - 130	67	35
o-Xylene	<0.00198	U F2 F1	0.100	0.08379	F2	mg/Kg		84	70 - 130	54	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	130		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-10846/1-A

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10846

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 14:47	10/29/21 10:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 14:47	10/29/21 10:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 14:47	10/29/21 10:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			10/28/21 14:47	10/29/21 10:52	1
o-Terphenyl	111		70 - 130			10/28/21 14:47	10/29/21 10:52	1

Lab Sample ID: LCS 880-10846/2-A

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1093		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	922.2		mg/Kg		92	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-10846/2-A

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10846

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-10846/3-A

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10846

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	998.3		mg/Kg		100	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	915.7		mg/Kg		92	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 890-1488-A-21-C MS

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	997	1253		mg/Kg		121	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	927.0		mg/Kg		91	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-1488-A-21-D MSD

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	1000	1006	F2	mg/Kg		96	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	779.6		mg/Kg		76	70 - 130	17	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	83		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-10863/1-A

Matrix: Solid

Analysis Batch: 10891

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10863

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 10:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 10:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/28/21 15:44	10/29/21 10:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	10/28/21 15:44	10/29/21 10:51	1
o-Terphenyl	139	S1+	70 - 130	10/28/21 15:44	10/29/21 10:51	1

Lab Sample ID: LCS 880-10863/2-A

Matrix: Solid

Analysis Batch: 10891

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	868.3		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1130		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-10863/3-A

Matrix: Solid

Analysis Batch: 10891

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10863

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	815.7		mg/Kg		82	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1069		mg/Kg		107	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 890-1465-1 MS

Matrix: Solid

Analysis Batch: 10891

Client Sample ID: C-1218 0-1.5'

Prep Type: Total/NA

Prep Batch: 10863

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1094		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1178		mg/Kg		116	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1465-1 MS

Matrix: Solid

Analysis Batch: 10891

Client Sample ID: C-1218 0-1.5'

Prep Type: Total/NA

Prep Batch: 10863

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 890-1465-1 MSD

Matrix: Solid

Analysis Batch: 10891

Client Sample ID: C-1218 0-1.5'

Prep Type: Total/NA

Prep Batch: 10863

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1110		mg/Kg		111	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1128		mg/Kg		110	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	103		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10658/1-A

Matrix: Solid

Analysis Batch: 10798

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/28/21 18:09	1

Lab Sample ID: LCS 880-10658/2-A

Matrix: Solid

Analysis Batch: 10798

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-10658/3-A

Matrix: Solid

Analysis Batch: 10798

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1466-A-41-I MS

Matrix: Solid

Analysis Batch: 10798

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	711	F1	250	924.0	F1	mg/Kg		85	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1466-A-41-J MSD

Matrix: Solid

Analysis Batch: 10798

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	711	F1	250	921.7	F1	mg/Kg		84	90 - 110	0	20

Lab Sample ID: MB 880-10749/1-A

Matrix: Solid

Analysis Batch: 11007

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/01/21 20:55	1

Lab Sample ID: LCS 880-10749/2-A

Matrix: Solid

Analysis Batch: 11007

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-10749/3-A

Matrix: Solid

Analysis Batch: 11007

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	230.9		mg/Kg		92	90 - 110	7	20

Lab Sample ID: 890-1465-21 MS

Matrix: Solid

Analysis Batch: 11007

Client Sample ID: C-1238 0-1.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	102		248	345.6		mg/Kg		98	90 - 110

Lab Sample ID: 890-1465-21 MSD

Matrix: Solid

Analysis Batch: 11007

Client Sample ID: C-1238 0-1.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	102		248	366.3		mg/Kg		107	90 - 110	6	20

Lab Sample ID: MB 880-10748/1-A

Matrix: Solid

Analysis Batch: 11008

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/01/21 16:44	1

Lab Sample ID: LCS 880-10748/2-A

Matrix: Solid

Analysis Batch: 11008

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	240.9		mg/Kg		96	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-10748/3-A

Matrix: Solid

Analysis Batch: 11008

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	243.6		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 890-1465-1 MS

Matrix: Solid

Analysis Batch: 11008

Client Sample ID: C-1218 0-1.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	224	F1	250	521.3	F1	mg/Kg		119	90 - 110		

Lab Sample ID: 890-1465-1 MSD

Matrix: Solid

Analysis Batch: 11008

Client Sample ID: C-1218 0-1.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	224	F1	250	519.0	F1	mg/Kg		118	90 - 110	0	20

Lab Sample ID: 890-1465-11 MS

Matrix: Solid

Analysis Batch: 11008

Client Sample ID: C-1228 2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	717	F1	250	968.8		mg/Kg		101	90 - 110		

Lab Sample ID: 890-1465-11 MSD

Matrix: Solid

Analysis Batch: 11008

Client Sample ID: C-1228 2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	717	F1	250	904.2	F1	mg/Kg		75	90 - 110	7	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

GC VOA

Prep Batch: 10438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-21	C-1238 0-1.5'	Total/NA	Solid	5035	
890-1465-22	C-1239 0-1.5'	Total/NA	Solid	5035	
890-1465-23	C-1240 0-2'	Total/NA	Solid	5035	
890-1465-24	C-1241 0-1.5'	Total/NA	Solid	5035	
MB 880-10438/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10438/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10438/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 10439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-1	C-1218 0-1.5'	Total/NA	Solid	5035	
890-1465-2	C-1219 0-1.5'	Total/NA	Solid	5035	
890-1465-3	C-1220 0-1.5'	Total/NA	Solid	5035	
890-1465-4	C-1221 0-1.5'	Total/NA	Solid	5035	
890-1465-5	C-1222 2'	Total/NA	Solid	5035	
890-1465-6	C-1223 2'	Total/NA	Solid	5035	
890-1465-7	C-1224 2'	Total/NA	Solid	5035	
890-1465-8	C-1225 2'	Total/NA	Solid	5035	
890-1465-9	C-1226 2'	Total/NA	Solid	5035	
890-1465-10	C-1227 2'	Total/NA	Solid	5035	
890-1465-11	C-1228 2'	Total/NA	Solid	5035	
890-1465-12	C-1229 2'	Total/NA	Solid	5035	
890-1465-13	C-1230 2'	Total/NA	Solid	5035	
890-1465-14	C-1231 2'	Total/NA	Solid	5035	
890-1465-15	C-1232 2'	Total/NA	Solid	5035	
890-1465-16	C-1233 2'	Total/NA	Solid	5035	
890-1465-17	C-1234 2'	Total/NA	Solid	5035	
890-1465-18	C-1235 2'	Total/NA	Solid	5035	
890-1465-19	C-1236 2'	Total/NA	Solid	5035	
890-1465-20	C-1237 0-2'	Total/NA	Solid	5035	
MB 880-10439/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10439/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10439/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1465-1 MS	C-1218 0-1.5'	Total/NA	Solid	5035	
890-1465-1 MSD	C-1218 0-1.5'	Total/NA	Solid	5035	

Analysis Batch: 10684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-1	C-1218 0-1.5'	Total/NA	Solid	8021B	10439
890-1465-2	C-1219 0-1.5'	Total/NA	Solid	8021B	10439
890-1465-3	C-1220 0-1.5'	Total/NA	Solid	8021B	10439
890-1465-4	C-1221 0-1.5'	Total/NA	Solid	8021B	10439
890-1465-5	C-1222 2'	Total/NA	Solid	8021B	10439
890-1465-6	C-1223 2'	Total/NA	Solid	8021B	10439
890-1465-7	C-1224 2'	Total/NA	Solid	8021B	10439
890-1465-8	C-1225 2'	Total/NA	Solid	8021B	10439
890-1465-9	C-1226 2'	Total/NA	Solid	8021B	10439
890-1465-10	C-1227 2'	Total/NA	Solid	8021B	10439
890-1465-11	C-1228 2'	Total/NA	Solid	8021B	10439
890-1465-12	C-1229 2'	Total/NA	Solid	8021B	10439
890-1465-13	C-1230 2'	Total/NA	Solid	8021B	10439

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 10684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-14	C-1231 2'	Total/NA	Solid	8021B	10439
890-1465-15	C-1232 2'	Total/NA	Solid	8021B	10439
890-1465-16	C-1233 2'	Total/NA	Solid	8021B	10439
890-1465-17	C-1234 2'	Total/NA	Solid	8021B	10439
890-1465-18	C-1235 2'	Total/NA	Solid	8021B	10439
890-1465-19	C-1236 2'	Total/NA	Solid	8021B	10439
890-1465-20	C-1237 0-2'	Total/NA	Solid	8021B	10439
890-1465-21	C-1238 0-1.5'	Total/NA	Solid	8021B	10438
890-1465-22	C-1239 0-1.5'	Total/NA	Solid	8021B	10438
890-1465-23	C-1240 0-2'	Total/NA	Solid	8021B	10438
890-1465-24	C-1241 0-1.5'	Total/NA	Solid	8021B	10438
MB 880-10438/5-A	Method Blank	Total/NA	Solid	8021B	10438
MB 880-10439/5-A	Method Blank	Total/NA	Solid	8021B	10439
LCS 880-10438/1-A	Lab Control Sample	Total/NA	Solid	8021B	10438
LCS 880-10439/1-A	Lab Control Sample	Total/NA	Solid	8021B	10439
LCSD 880-10438/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10438
LCSD 880-10439/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10439
890-1465-1 MS	C-1218 0-1.5'	Total/NA	Solid	8021B	10439
890-1465-1 MSD	C-1218 0-1.5'	Total/NA	Solid	8021B	10439

Analysis Batch: 11149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-1	C-1218 0-1.5'	Total/NA	Solid	Total BTEX	
890-1465-2	C-1219 0-1.5'	Total/NA	Solid	Total BTEX	
890-1465-3	C-1220 0-1.5'	Total/NA	Solid	Total BTEX	
890-1465-4	C-1221 0-1.5'	Total/NA	Solid	Total BTEX	
890-1465-5	C-1222 2'	Total/NA	Solid	Total BTEX	
890-1465-6	C-1223 2'	Total/NA	Solid	Total BTEX	
890-1465-7	C-1224 2'	Total/NA	Solid	Total BTEX	
890-1465-8	C-1225 2'	Total/NA	Solid	Total BTEX	
890-1465-9	C-1226 2'	Total/NA	Solid	Total BTEX	
890-1465-10	C-1227 2'	Total/NA	Solid	Total BTEX	
890-1465-11	C-1228 2'	Total/NA	Solid	Total BTEX	
890-1465-12	C-1229 2'	Total/NA	Solid	Total BTEX	
890-1465-13	C-1230 2'	Total/NA	Solid	Total BTEX	
890-1465-14	C-1231 2'	Total/NA	Solid	Total BTEX	
890-1465-15	C-1232 2'	Total/NA	Solid	Total BTEX	
890-1465-16	C-1233 2'	Total/NA	Solid	Total BTEX	
890-1465-17	C-1234 2'	Total/NA	Solid	Total BTEX	
890-1465-18	C-1235 2'	Total/NA	Solid	Total BTEX	
890-1465-19	C-1236 2'	Total/NA	Solid	Total BTEX	
890-1465-20	C-1237 0-2'	Total/NA	Solid	Total BTEX	
890-1465-21	C-1238 0-1.5'	Total/NA	Solid	Total BTEX	
890-1465-22	C-1239 0-1.5'	Total/NA	Solid	Total BTEX	
890-1465-23	C-1240 0-2'	Total/NA	Solid	Total BTEX	
890-1465-24	C-1241 0-1.5'	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 10846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-21	C-1238 0-1.5'	Total/NA	Solid	8015NM Prep	
890-1465-22	C-1239 0-1.5'	Total/NA	Solid	8015NM Prep	
890-1465-23	C-1240 0-2'	Total/NA	Solid	8015NM Prep	
890-1465-24	C-1241 0-1.5'	Total/NA	Solid	8015NM Prep	
MB 880-10846/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10846/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10846/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1488-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1488-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 10863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-1	C-1218 0-1.5'	Total/NA	Solid	8015NM Prep	
890-1465-2	C-1219 0-1.5'	Total/NA	Solid	8015NM Prep	
890-1465-3	C-1220 0-1.5'	Total/NA	Solid	8015NM Prep	
890-1465-4	C-1221 0-1.5'	Total/NA	Solid	8015NM Prep	
890-1465-5	C-1222 2'	Total/NA	Solid	8015NM Prep	
890-1465-6	C-1223 2'	Total/NA	Solid	8015NM Prep	
890-1465-7	C-1224 2'	Total/NA	Solid	8015NM Prep	
890-1465-8	C-1225 2'	Total/NA	Solid	8015NM Prep	
890-1465-9	C-1226 2'	Total/NA	Solid	8015NM Prep	
890-1465-10	C-1227 2'	Total/NA	Solid	8015NM Prep	
890-1465-11	C-1228 2'	Total/NA	Solid	8015NM Prep	
890-1465-12	C-1229 2'	Total/NA	Solid	8015NM Prep	
890-1465-13	C-1230 2'	Total/NA	Solid	8015NM Prep	
890-1465-14	C-1231 2'	Total/NA	Solid	8015NM Prep	
890-1465-15	C-1232 2'	Total/NA	Solid	8015NM Prep	
890-1465-16	C-1233 2'	Total/NA	Solid	8015NM Prep	
890-1465-17	C-1234 2'	Total/NA	Solid	8015NM Prep	
890-1465-18	C-1235 2'	Total/NA	Solid	8015NM Prep	
890-1465-19	C-1236 2'	Total/NA	Solid	8015NM Prep	
890-1465-20	C-1237 0-2'	Total/NA	Solid	8015NM Prep	
MB 880-10863/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10863/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10863/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1465-1 MS	C-1218 0-1.5'	Total/NA	Solid	8015NM Prep	
890-1465-1 MSD	C-1218 0-1.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-21	C-1238 0-1.5'	Total/NA	Solid	8015B NM	10846
890-1465-22	C-1239 0-1.5'	Total/NA	Solid	8015B NM	10846
890-1465-23	C-1240 0-2'	Total/NA	Solid	8015B NM	10846
890-1465-24	C-1241 0-1.5'	Total/NA	Solid	8015B NM	10846
MB 880-10846/1-A	Method Blank	Total/NA	Solid	8015B NM	10846
LCS 880-10846/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10846
LCSD 880-10846/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10846
890-1488-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	10846
890-1488-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10846

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 10891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-1	C-1218 0-1.5'	Total/NA	Solid	8015B NM	10863
890-1465-2	C-1219 0-1.5'	Total/NA	Solid	8015B NM	10863
890-1465-3	C-1220 0-1.5'	Total/NA	Solid	8015B NM	10863
890-1465-4	C-1221 0-1.5'	Total/NA	Solid	8015B NM	10863
890-1465-5	C-1222 2'	Total/NA	Solid	8015B NM	10863
890-1465-6	C-1223 2'	Total/NA	Solid	8015B NM	10863
890-1465-7	C-1224 2'	Total/NA	Solid	8015B NM	10863
890-1465-8	C-1225 2'	Total/NA	Solid	8015B NM	10863
890-1465-9	C-1226 2'	Total/NA	Solid	8015B NM	10863
890-1465-10	C-1227 2'	Total/NA	Solid	8015B NM	10863
890-1465-11	C-1228 2'	Total/NA	Solid	8015B NM	10863
890-1465-12	C-1229 2'	Total/NA	Solid	8015B NM	10863
890-1465-13	C-1230 2'	Total/NA	Solid	8015B NM	10863
890-1465-14	C-1231 2'	Total/NA	Solid	8015B NM	10863
890-1465-15	C-1232 2'	Total/NA	Solid	8015B NM	10863
890-1465-16	C-1233 2'	Total/NA	Solid	8015B NM	10863
890-1465-17	C-1234 2'	Total/NA	Solid	8015B NM	10863
890-1465-18	C-1235 2'	Total/NA	Solid	8015B NM	10863
890-1465-19	C-1236 2'	Total/NA	Solid	8015B NM	10863
890-1465-20	C-1237 0-2'	Total/NA	Solid	8015B NM	10863
MB 880-10863/1-A	Method Blank	Total/NA	Solid	8015B NM	10863
LCS 880-10863/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10863
LCSD 880-10863/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10863
890-1465-1 MS	C-1218 0-1.5'	Total/NA	Solid	8015B NM	10863
890-1465-1 MSD	C-1218 0-1.5'	Total/NA	Solid	8015B NM	10863

Analysis Batch: 10946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-1	C-1218 0-1.5'	Total/NA	Solid	8015 NM	
890-1465-2	C-1219 0-1.5'	Total/NA	Solid	8015 NM	
890-1465-3	C-1220 0-1.5'	Total/NA	Solid	8015 NM	
890-1465-4	C-1221 0-1.5'	Total/NA	Solid	8015 NM	
890-1465-5	C-1222 2'	Total/NA	Solid	8015 NM	
890-1465-6	C-1223 2'	Total/NA	Solid	8015 NM	
890-1465-7	C-1224 2'	Total/NA	Solid	8015 NM	
890-1465-8	C-1225 2'	Total/NA	Solid	8015 NM	
890-1465-9	C-1226 2'	Total/NA	Solid	8015 NM	
890-1465-10	C-1227 2'	Total/NA	Solid	8015 NM	
890-1465-11	C-1228 2'	Total/NA	Solid	8015 NM	
890-1465-12	C-1229 2'	Total/NA	Solid	8015 NM	
890-1465-13	C-1230 2'	Total/NA	Solid	8015 NM	
890-1465-14	C-1231 2'	Total/NA	Solid	8015 NM	
890-1465-15	C-1232 2'	Total/NA	Solid	8015 NM	
890-1465-16	C-1233 2'	Total/NA	Solid	8015 NM	
890-1465-17	C-1234 2'	Total/NA	Solid	8015 NM	
890-1465-18	C-1235 2'	Total/NA	Solid	8015 NM	
890-1465-19	C-1236 2'	Total/NA	Solid	8015 NM	
890-1465-20	C-1237 0-2'	Total/NA	Solid	8015 NM	
890-1465-21	C-1238 0-1.5'	Total/NA	Solid	8015 NM	
890-1465-22	C-1239 0-1.5'	Total/NA	Solid	8015 NM	
890-1465-23	C-1240 0-2'	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 10946 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-24	C-1241 0-1.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 10658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-16	C-1233 2'	Soluble	Solid	DI Leach	
MB 880-10658/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10658/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10658/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1466-A-41-I MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1466-A-41-J MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 10748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-1	C-1218 0-1.5'	Soluble	Solid	DI Leach	
890-1465-2	C-1219 0-1.5'	Soluble	Solid	DI Leach	
890-1465-3	C-1220 0-1.5'	Soluble	Solid	DI Leach	
890-1465-4	C-1221 0-1.5'	Soluble	Solid	DI Leach	
890-1465-5	C-1222 2'	Soluble	Solid	DI Leach	
890-1465-6	C-1223 2'	Soluble	Solid	DI Leach	
890-1465-7	C-1224 2'	Soluble	Solid	DI Leach	
890-1465-8	C-1225 2'	Soluble	Solid	DI Leach	
890-1465-9	C-1226 2'	Soluble	Solid	DI Leach	
890-1465-10	C-1227 2'	Soluble	Solid	DI Leach	
890-1465-11	C-1228 2'	Soluble	Solid	DI Leach	
890-1465-12	C-1229 2'	Soluble	Solid	DI Leach	
890-1465-13	C-1230 2'	Soluble	Solid	DI Leach	
890-1465-14	C-1231 2'	Soluble	Solid	DI Leach	
890-1465-15	C-1232 2'	Soluble	Solid	DI Leach	
890-1465-17	C-1234 2'	Soluble	Solid	DI Leach	
890-1465-18	C-1235 2'	Soluble	Solid	DI Leach	
890-1465-19	C-1236 2'	Soluble	Solid	DI Leach	
890-1465-20	C-1237 0-2'	Soluble	Solid	DI Leach	
MB 880-10748/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10748/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10748/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1465-1 MS	C-1218 0-1.5'	Soluble	Solid	DI Leach	
890-1465-1 MSD	C-1218 0-1.5'	Soluble	Solid	DI Leach	
890-1465-11 MS	C-1228 2'	Soluble	Solid	DI Leach	
890-1465-11 MSD	C-1228 2'	Soluble	Solid	DI Leach	

Leach Batch: 10749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-21	C-1238 0-1.5'	Soluble	Solid	DI Leach	
890-1465-22	C-1239 0-1.5'	Soluble	Solid	DI Leach	
890-1465-23	C-1240 0-2'	Soluble	Solid	DI Leach	
890-1465-24	C-1241 0-1.5'	Soluble	Solid	DI Leach	
MB 880-10749/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10749/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10749/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 10749 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-21 MS	C-1238 0-1.5'	Soluble	Solid	DI Leach	
890-1465-21 MSD	C-1238 0-1.5'	Soluble	Solid	DI Leach	

Analysis Batch: 10798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-16	C-1233 2'	Soluble	Solid	300.0	10658
MB 880-10658/1-A	Method Blank	Soluble	Solid	300.0	10658
LCS 880-10658/2-A	Lab Control Sample	Soluble	Solid	300.0	10658
LCSD 880-10658/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10658
890-1466-A-41-I MS	Matrix Spike	Soluble	Solid	300.0	10658
890-1466-A-41-J MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	10658

Analysis Batch: 11007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-21	C-1238 0-1.5'	Soluble	Solid	300.0	10749
890-1465-22	C-1239 0-1.5'	Soluble	Solid	300.0	10749
890-1465-23	C-1240 0-2'	Soluble	Solid	300.0	10749
890-1465-24	C-1241 0-1.5'	Soluble	Solid	300.0	10749
MB 880-10749/1-A	Method Blank	Soluble	Solid	300.0	10749
LCS 880-10749/2-A	Lab Control Sample	Soluble	Solid	300.0	10749
LCSD 880-10749/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10749
890-1465-21 MS	C-1238 0-1.5'	Soluble	Solid	300.0	10749
890-1465-21 MSD	C-1238 0-1.5'	Soluble	Solid	300.0	10749

Analysis Batch: 11008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-1	C-1218 0-1.5'	Soluble	Solid	300.0	10748
890-1465-2	C-1219 0-1.5'	Soluble	Solid	300.0	10748
890-1465-3	C-1220 0-1.5'	Soluble	Solid	300.0	10748
890-1465-4	C-1221 0-1.5'	Soluble	Solid	300.0	10748
890-1465-5	C-1222 2'	Soluble	Solid	300.0	10748
890-1465-6	C-1223 2'	Soluble	Solid	300.0	10748
890-1465-7	C-1224 2'	Soluble	Solid	300.0	10748
890-1465-8	C-1225 2'	Soluble	Solid	300.0	10748
890-1465-9	C-1226 2'	Soluble	Solid	300.0	10748
890-1465-10	C-1227 2'	Soluble	Solid	300.0	10748
890-1465-11	C-1228 2'	Soluble	Solid	300.0	10748
890-1465-12	C-1229 2'	Soluble	Solid	300.0	10748
890-1465-13	C-1230 2'	Soluble	Solid	300.0	10748
890-1465-14	C-1231 2'	Soluble	Solid	300.0	10748
890-1465-15	C-1232 2'	Soluble	Solid	300.0	10748
890-1465-17	C-1234 2'	Soluble	Solid	300.0	10748
890-1465-18	C-1235 2'	Soluble	Solid	300.0	10748
890-1465-19	C-1236 2'	Soluble	Solid	300.0	10748
890-1465-20	C-1237 0-2'	Soluble	Solid	300.0	10748
MB 880-10748/1-A	Method Blank	Soluble	Solid	300.0	10748
LCS 880-10748/2-A	Lab Control Sample	Soluble	Solid	300.0	10748
LCSD 880-10748/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10748
890-1465-1 MS	C-1218 0-1.5'	Soluble	Solid	300.0	10748
890-1465-1 MSD	C-1218 0-1.5'	Soluble	Solid	300.0	10748
890-1465-11 MS	C-1228 2'	Soluble	Solid	300.0	10748

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 11008 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1465-11 MSD	C-1228 2'	Soluble	Solid	300.0	10748

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1218 0-1.5'

Lab Sample ID: 890-1465-1

Date Collected: 10/21/21 08:40

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 05:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 11:54	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 17:06	CH	XEN MID

Client Sample ID: C-1219 0-1.5'

Lab Sample ID: 890-1465-2

Date Collected: 10/21/21 08:41

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 05:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 12:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 17:27	CH	XEN MID

Client Sample ID: C-1220 0-1.5'

Lab Sample ID: 890-1465-3

Date Collected: 10/21/21 08:42

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 06:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 13:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 17:34	CH	XEN MID

Client Sample ID: C-1221 0-1.5'

Lab Sample ID: 890-1465-4

Date Collected: 10/21/21 08:43

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 06:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1221 0-1.5'

Lab Sample ID: 890-1465-4

Date Collected: 10/21/21 08:43

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 13:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 17:41	CH	XEN MID

Client Sample ID: C-1222 2'

Lab Sample ID: 890-1465-5

Date Collected: 10/21/21 10:20

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 07:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 14:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 17:49	CH	XEN MID

Client Sample ID: C-1223 2'

Lab Sample ID: 890-1465-6

Date Collected: 10/21/21 10:21

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 07:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 14:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 18:10	CH	XEN MID

Client Sample ID: C-1224 2'

Lab Sample ID: 890-1465-7

Date Collected: 10/21/21 10:22

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 07:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 14:46	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1224 2'

Date Collected: 10/21/21 10:22

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1465-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 18:17	CH	XEN MID

Client Sample ID: C-1225 2'

Date Collected: 10/21/21 10:23

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1465-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 08:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 18:24	CH	XEN MID

Client Sample ID: C-1226 2'

Date Collected: 10/21/21 10:24

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1465-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 08:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 15:29	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/02/21 11:45	CH	XEN MID

Client Sample ID: C-1227 2'

Date Collected: 10/21/21 10:25

Date Received: 10/21/21 14:36

Lab Sample ID: 890-1465-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 09:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 15:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 18:39	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1228 2'

Lab Sample ID: 890-1465-11

Date Collected: 10/21/21 10:26

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 11:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 16:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 18:46	CH	XEN MID

Client Sample ID: C-1229 2'

Lab Sample ID: 890-1465-12

Date Collected: 10/21/21 10:27

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 11:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 16:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 19:07	CH	XEN MID

Client Sample ID: C-1230 2'

Lab Sample ID: 890-1465-13

Date Collected: 10/21/21 10:28

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 11:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 17:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		5			11008	11/01/21 19:14	CH	XEN MID

Client Sample ID: C-1231 2'

Lab Sample ID: 890-1465-14

Date Collected: 10/21/21 10:29

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 12:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1231 2'

Lab Sample ID: 890-1465-14

Date Collected: 10/21/21 10:29

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 17:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 19:36	CH	XEN MID

Client Sample ID: C-1232 2'

Lab Sample ID: 890-1465-15

Date Collected: 10/21/21 10:30

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 12:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 17:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 19:43	CH	XEN MID

Client Sample ID: C-1233 2'

Lab Sample ID: 890-1465-16

Date Collected: 10/21/21 10:31

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 13:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10658	10/26/21 17:08	CA	XEN MID
Soluble	Analysis	300.0		1			10798	10/29/21 08:29	CH	XEN MID

Client Sample ID: C-1234 2'

Lab Sample ID: 890-1465-17

Date Collected: 10/21/21 10:32

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 13:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 18:41	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1234 2'

Lab Sample ID: 890-1465-17

Date Collected: 10/21/21 10:32

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 19:57	CH	XEN MID

Client Sample ID: C-1235 2'

Lab Sample ID: 890-1465-18

Date Collected: 10/21/21 10:33

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 14:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 19:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 20:04	CH	XEN MID

Client Sample ID: C-1236 2'

Lab Sample ID: 890-1465-19

Date Collected: 10/21/21 10:34

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 14:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 20:12	CH	XEN MID

Client Sample ID: C-1237 0-2'

Lab Sample ID: 890-1465-20

Date Collected: 10/21/21 12:00

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10439	10/25/21 14:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 15:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10863	10/28/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/29/21 19:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	10748	10/27/21 13:04	SC	XEN MID
Soluble	Analysis	300.0		1			11008	11/01/21 20:19	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1238 0-1.5'

Lab Sample ID: 890-1465-21

Date Collected: 10/21/21 12:01

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10438	10/25/21 14:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 00:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10846	10/28/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10885	10/29/21 17:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10749	10/27/21 13:09	SC	XEN MID
Soluble	Analysis	300.0		1			11007	11/01/21 21:16	CH	XEN MID

Client Sample ID: C-1239 0-1.5'

Lab Sample ID: 890-1465-22

Date Collected: 10/21/21 12:02

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10438	10/25/21 14:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 00:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10846	10/28/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10885	10/29/21 17:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10749	10/27/21 13:09	SC	XEN MID
Soluble	Analysis	300.0		1			11007	11/01/21 21:37	CH	XEN MID

Client Sample ID: C-1240 0-2'

Lab Sample ID: 890-1465-23

Date Collected: 10/21/21 12:03

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10438	10/25/21 14:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 01:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10846	10/28/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10885	10/29/21 18:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	10749	10/27/21 13:09	SC	XEN MID
Soluble	Analysis	300.0		1			11007	11/01/21 21:45	CH	XEN MID

Client Sample ID: C-1241 0-1.5'

Lab Sample ID: 890-1465-24

Date Collected: 10/21/21 12:04

Matrix: Solid

Date Received: 10/21/21 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10438	10/25/21 14:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10684	10/28/21 01:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:47	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Client Sample ID: C-1241 0-1.5'
Date Collected: 10/21/21 12:04
Date Received: 10/21/21 14:36

Lab Sample ID: 890-1465-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10846	10/28/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10885	10/29/21 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10749	10/27/21 13:09	SC	XEN MID
Soluble	Analysis	300.0		1			11007	11/01/21 21:52	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1465-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1465-1	C-1218 0-1.5'	Solid	10/21/21 08:40	10/21/21 14:36
890-1465-2	C-1219 0-1.5'	Solid	10/21/21 08:41	10/21/21 14:36
890-1465-3	C-1220 0-1.5'	Solid	10/21/21 08:42	10/21/21 14:36
890-1465-4	C-1221 0-1.5'	Solid	10/21/21 08:43	10/21/21 14:36
890-1465-5	C-1222 2'	Solid	10/21/21 10:20	10/21/21 14:36
890-1465-6	C-1223 2'	Solid	10/21/21 10:21	10/21/21 14:36
890-1465-7	C-1224 2'	Solid	10/21/21 10:22	10/21/21 14:36
890-1465-8	C-1225 2'	Solid	10/21/21 10:23	10/21/21 14:36
890-1465-9	C-1226 2'	Solid	10/21/21 10:24	10/21/21 14:36
890-1465-10	C-1227 2'	Solid	10/21/21 10:25	10/21/21 14:36
890-1465-11	C-1228 2'	Solid	10/21/21 10:26	10/21/21 14:36
890-1465-12	C-1229 2'	Solid	10/21/21 10:27	10/21/21 14:36
890-1465-13	C-1230 2'	Solid	10/21/21 10:28	10/21/21 14:36
890-1465-14	C-1231 2'	Solid	10/21/21 10:29	10/21/21 14:36
890-1465-15	C-1232 2'	Solid	10/21/21 10:30	10/21/21 14:36
890-1465-16	C-1233 2'	Solid	10/21/21 10:31	10/21/21 14:36
890-1465-17	C-1234 2'	Solid	10/21/21 10:32	10/21/21 14:36
890-1465-18	C-1235 2'	Solid	10/21/21 10:33	10/21/21 14:36
890-1465-19	C-1236 2'	Solid	10/21/21 10:34	10/21/21 14:36
890-1465-20	C-1237 0-2'	Solid	10/21/21 12:00	10/21/21 14:36
890-1465-21	C-1238 0-1.5'	Solid	10/21/21 12:01	10/21/21 14:36
890-1465-22	C-1239 0-1.5'	Solid	10/21/21 12:02	10/21/21 14:36
890-1465-23	C-1240 0-2'	Solid	10/21/21 12:03	10/21/21 14:36
890-1465-24	C-1241 0-1.5'	Solid	10/21/21 12:04	10/21/21 14:36

Varson & Associates, Inc.
Environmental Consultants

890-1465 Chain of Custody



Data Reported to:

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State
MST/NN

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX, MTBE

TPH 118.1

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PCBS

TCLP - METALS (RCRA)

TCLP - PEST

TOTAL METALS (RCRA)

LEAD - TOTAL

ROI - TOX

TDS

pH

% MOISTURE

EXPLOSIVES

HEXA-VALENT CHROMIUM

PECHLORATE

CHLORIDE ANIONS

ALKALINITY

FIELD NOTES

DATE: 10/21/21

PO#:

LAB WORK ORDER#:

PAGE 1 OF 2

PROJECT LOCATION OR NAME:

211110 Ast

LAI PROJECT #: 21-0145-02

COLLECTOR: TP

CHAIN-OF-CUSTODY

No. 2160

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
L-1247		10/21/21	0846	5	1						X	
L-1248			0841								X	
L-1249			0842								X	
L-1250			0843								X	
L-1251			1020								X	
L-1252			1021								X	
L-1253			1022								X	
L-1254			1023								X	
L-1255			1024								X	
L-1256			1025								X	
L-1257			1026								X	
L-1258			1027								X	
L-1259			1028								X	
L-1260			1029								X	
L-1261			1030								X	
TOTAL 15												

RELINQUISHED BY (Signature)

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

RECEIVED BY (Signature)

RECEIVING TEMP.

RECEIVING TEMP.

RELINQUISHED BY (Signature)

RECEIVED BY (Signature)

RECEIVING TEMP.

RECEIVING TEMP.

RELINQUISHED BY (Signature)

RECEIVED BY (Signature)

RECEIVING TEMP.

RECEIVING TEMP.

LABORATORY XENLO

LABORATORY XENLO

Varson & Associates, Inc.
Environmental Consultants

507 N. Mainfield, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State
MST/NTM

Field Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX ☒ MTBE ☒
TPH 418 ☒ TPH 1005 ☒ TPH 1006 ☒
GASOLINE MOD 8015 ☒
DIESEL - MOD 8015 ☒
OIL - MOD 8015 ☒
VOC 8260 ☒
SVOC 8270 ☒
8081 PESTICIDES ☒ PAH 8270 ☒ HOLDPAH ☒
8082 PCBS ☒ 8151 HERBICIDES ☒
TCLP - METALS (RCRA) ☒ TCLP VOC ☒
TCLP - PEST ☒ TCLP Semi-VOC ☒
TOTAL METALS (RCRA) ☒ OTHER LIST ☒
LEAD - TOTAL ☒ D W 2008 ☒ TCLP ☒
RCI ☒ TOX ☒ FLASHPOINT ☒
TDS ☒ JTSS ☒ % MOISTURE ☒ CYANIDE ☒
PH ☒ HEXAVALENT CHROMIUM ☒
EXPLOSIVES ☒ PECTHLORATE ☒
CHLORIDE ☒ ANIONS ☒ ALKALINITY ☒

FIELD NOTES

DATE: 10-21-21

PAGE 2 OF 2

PO#:

LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Palmid Ast

LAI PROJECT #: 21-0105-22

COLLECTOR: TP

CHAIN-OF-CUSTODY

No. 2161

12/13/2021 (Rev. 1)

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	TURN AROUND TIME	LABORATORY USE ONLY:
L-1262		10/21/21	1031	S	1				X		X	NORMAL ☒	RECEIVING TEMP: _____ THERM# _____
L-1263			1032	S	1				X		X	1 DAY ☐	CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
L-1264			1033	S	1				X		X	2 DAY ☐	☐ CARRIER BILL # _____
L-1265			1034	S	1				X		X	OTHER ☐	☐ HAND DELIVERED
L-1266			1200	S	1				X		X		
L-1267			1201	S	1				X		X		
L-1268			1202	S	1				X		X		
L-1269			1203	S	1				X		X		
L-1270			1204	S	1				X		X		
TOTAL 9													

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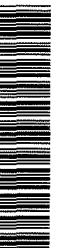
Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



eurofins

Environment Testing
America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No			
Client Contact: Eurofins Xenco				Phone	Taylor Holly		890-475-1			
Shipping/Receiving				E-Mail	holly.taylor@eurofins.com	State of Origin: New Mexico	Page 1 of 3			
Address: 1211 W Florida Ave				Accreditations Required (See note): NELAP - Louisiana NELAP - Texas						
City: Midland				Analysis Requested						
State Zip: TX 79701				Job #						
Phone: 432-704-5440(Tel)				890-1465-1						
Email: Project # 89000025				Preservation Codes						
Project Name: Pal Mito Ast				A HCL M Hexane B NaOH N None C Zn Acetate O Acetic Acid D Nitric Acid P Na2CO3 E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amelcor S H2SO4 H Ascorbic Acid T TSP Decahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z Other (specify)						
Site				Other:						
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers		Special Instructions/Note
C-1247 (890-1465-1)	10/21/21	08 40	Mountain	Solid		X	X	X	X	
C-1248 (890-1465-2)	10/21/21	08 41	Mountain	Solid		X	X	X	X	
C-1249 (890-1465-3)	10/21/21	08 42	Mountain	Solid		X	X	X	X	
C-1250 (890-1465-4)	10/21/21	08 43	Mountain	Solid		X	X	X	X	
C-1251 (890-1465-5)	10/21/21	10 20	Mountain	Solid		X	X	X	X	
C-1252 (890-1465-6)	10/21/21	10 21	Mountain	Solid		X	X	X	X	
C-1253 (890-1465-7)	10/21/21	10 22	Mountain	Solid		X	X	X	X	
C-1254 (890-1465-8)	10/21/21	10 23	Mountain	Solid		X	X	X	X	
C-1255 (890-1465-9)	10/21/21	10 24	Mountain	Solid		X	X	X	X	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: _____ Date/Time: 10/12/21 Company: _____ Received by: _____ Date/Time: 10-22-21 Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: 12-30 Company: _____

Custody Seals Intact ☐ Yes ☐ No Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks: 32/3.3

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- 7
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- 11
- 12
- 13
- 14

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No					
Client Contact:	Phone	Taylor Holly			890-475 2					
Shipping/Receiving	E-Mail	holly.taylor@eurofinset.com	State of Origin	Page	Page 2 of 3					
Company	Accreditations Required (See note):	NE LAP - Louisiana NE LAP - Texas	New Mexico	Job #	890-1465-1					
Eurofins Xenco										
Address	Due Date Requested									
1211 W Florida Ave	10/27/2021									
City	TAT Requested (days):									
Midland										
State, Zip										
TX 79701										
Phone	PO #									
432-704-5440(Te)										
Email	WO #									
Project Name	Project #									
Pal Mio Ast	89000025									
Site	SSOW#									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/solid, B=issue, A=AI)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note.
C-1256 (890-1465-10)	10/21/21	10 25	Mountain		Solid	X	X	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	X	
C-1257 (890-1465-11)	10/21/21	10 26	Mountain		Solid	X	X	8015MOD_Calc	X	
C-1258 (890-1465-12)	10/21/21	10 27	Mountain		Solid	X	X	300_ORGFM_28D/DI_LEACH Chloride	X	
C-1259 (890-1465-13)	10/21/21	10 28	Mountain		Solid	X	X	8021B/6036FP_Calc (MOD) BTEX - LL	X	
C-1260 (890-1465-14)	10/21/21	10 29	Mountain		Solid	X	X	Total_BTEX_GCV	X	
C-1261 (890-1465-15)	10/21/21	10 30	Mountain		Solid	X	X		X	
C-1262 (890-1465-16)	10/21/21	10 31	Mountain		Solid	X	X		X	
C-1263 (890-1465-17)	10/21/21	10 32	Mountain		Solid	X	X		X	
C-1264 (890-1465-18)	10/21/21	10 33	Mountain		Solid	X	X		X	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2										
Empty Kit Relinquished by										
Relinquished by <i>[Signature]</i> Date/Time 10/22/21 Company										
Relinquished by Date/Time Company										
Relinquished by Date/Time Company										
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No										
Cooler Temperature(s) °C and Other Remarks										

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No									
Client Contact:		Phone:	Taylor Holly		890-475 3									
Shipping/Receiving		E-Mail	holly.taylor@eurofinsnet.com	State of Origin	Page 3 of 3									
Company	Eurofins Xenco	Accreditations Required (See note)	NE LAP - Louisiana, NE LAP - Texas	New Mexico	Page 3 of 3									
Address	1211 W Florida Ave	Due Date Requested	10/27/2021	Job #	890-1465-1									
City	Midland	TAT Requested (days)		Analysis Requested										
State, Zip	TX 79701	PO #												
Phone	432-704-5440(Tel)	WO #												
Email		Project #	89000025											
Project Name	Pal Mto Ast	SSOW#												
Site														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=overhead, B=BT, T=trace, A=Asst)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFMM_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX - LL	Total BTEX_GCV	Total Number of containers	Special Instructions/Note
C-1265 (890-1465-19)		10/21/21	10:34	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1266 (890-1465-20)		10/21/21	12:00	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1267 (890-1465-21)		10/21/21	12:01	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1268 (890-1465-22)		10/21/21	12:02	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1269 (890-1465-23)		10/21/21	12:03	Mountain	Solid	X	X	X	X	X	X	X	1	
C-1270 (890-1465-24)		10/21/21	12:04	Mountain	Solid	X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte, & accreditation compliance upon out sub-contract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2														
Empty Kit Relinquished by _____ Date _____ Date _____ Date _____ Date _____														
Relinquished by _____ Date/Time _____ Date/Time _____ Date/Time _____ Date/Time _____														
Relinquished by _____ Date/Time _____ Date/Time _____ Date/Time _____ Date/Time _____														
Custody Seals Intact: _____ Custody Seal No _____														
Cooler Temperature(s) °C and Other Remarks _____														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
Return To Client _____ Disposal By Lab _____ Archive For _____ Months														
Special Instructions/QC Requirements _____														
Method of Shipment: _____ Date/Time _____ Date/Time _____ Date/Time _____ Date/Time _____														
Company _____ Company _____ Company _____ Company _____														

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1465-1

SDG Number: 21-0105-02

Login Number: 1465**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1465-1

SDG Number: 21-0105-02

Login Number: 1465

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 10/22/21 12:45 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2/3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-7765-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST
Revision: 2

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
2/2/2022 9:40:06 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-7765-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Eurofins Midland

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
- 3
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- 14

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Job ID: 880-7765-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-7765-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 11/9/2021. The report (revision 2) is being revised to change sample ID C-316 2.5' to C-346 2.5' per Daniel St. Germain (email).

Report revision history

Revision 1 - 12/13/2021 - Reason - The report was revised to change sample IDs per Daniel St. Germain (email)..

Receipt

The samples were received on 10/29/2021 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11123 and analytical batch 880-11027 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-597 2.5' (880-7765-21), C-590 2.5' (880-7765-22), C-572 2.5' (880-7765-24), C-567 2.5' (880-7765-25), C-566 2.5' (880-7765-26), C-565 2.5' (880-7765-27), C-562 2.5' (880-7765-28), C-571 2.5' (880-7765-29), C-589 2.5' (880-7765-30), C-579 2.5' (880-7765-31), C-471 2.5' (880-7765-32), C-561 2.5' (880-7765-33), C-586 2.5' (880-7765-34), C-550 2.5' (880-7765-35) and C-554 2.5' (880-7765-36). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-11249 and analytical batch 880-11321 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The laboratory control sample (LCS) associated with preparation batch 880-11148 and analytical batch 880-11216 was outside acceptance criteria, due to a mis-injection. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-346 2.5'

Lab Sample ID: 880-7765-1

Date Collected: 10/27/21 08:00

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199	mg/Kg		11/01/21 11:02	11/01/21 17:17	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		11/01/21 11:02	11/01/21 17:17	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		11/01/21 11:02	11/01/21 17:17	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		11/01/21 11:02	11/01/21 17:17	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		11/01/21 11:02	11/01/21 17:17	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		11/01/21 11:02	11/01/21 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	11/01/21 11:02	11/01/21 17:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/01/21 11:02	11/01/21 17:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9	mg/Kg		11/02/21 08:38	11/02/21 11:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 11:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	11/02/21 08:38	11/02/21 11:54	1
o-Terphenyl (Surr)	101		70 - 130	11/02/21 08:38	11/02/21 11:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		5.00	mg/Kg			11/07/21 18:19	1

Client Sample ID: C-344 2.5'

Lab Sample ID: 880-7765-2

Date Collected: 10/27/21 08:01

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 17:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 17:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 17:38	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/01/21 11:02	11/01/21 17:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 17:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/21 11:02	11/01/21 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	11/01/21 11:02	11/01/21 17:38	1
1,4-Difluorobenzene (Surr)	113		70 - 130	11/01/21 11:02	11/01/21 17:38	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-344 2.5'

Lab Sample ID: 880-7765-2

Date Collected: 10/27/21 08:01

Matrix: Solid

Date Received: 10/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 12:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 12:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 12:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			11/02/21 08:38	11/02/21 12:56	1
o-Terphenyl (Surr)	101		70 - 130			11/02/21 08:38	11/02/21 12:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	662		4.99	mg/Kg			11/07/21 18:41	1

Client Sample ID: C-380 2.5'

Lab Sample ID: 880-7765-3

Date Collected: 10/27/21 08:03

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 17:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 17:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 17:59	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/21 11:02	11/01/21 17:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 17:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/21 11:02	11/01/21 17:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			11/01/21 11:02	11/01/21 17:59	1
1,4-Difluorobenzene (Surr)	92		70 - 130			11/01/21 11:02	11/01/21 17:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 13:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 13:16	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-380 2.5'

Lab Sample ID: 880-7765-3

Date Collected: 10/27/21 08:03

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			11/02/21 08:38	11/02/21 13:16	1
o-Terphenyl (Surr)	112		70 - 130			11/02/21 08:38	11/02/21 13:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	427		4.98	mg/Kg			11/07/21 18:48	1

Client Sample ID: C-361 2.5'

Lab Sample ID: 880-7765-4

Date Collected: 10/27/21 08:04

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/01/21 11:02	11/01/21 18:20	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/01/21 11:02	11/01/21 18:20	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/01/21 11:02	11/01/21 18:20	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		11/01/21 11:02	11/01/21 18:20	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/01/21 11:02	11/01/21 18:20	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/01/21 11:02	11/01/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			11/01/21 11:02	11/01/21 18:20	1
1,4-Difluorobenzene (Surr)	106		70 - 130			11/01/21 11:02	11/01/21 18:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 13:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 13:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 13:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			11/02/21 08:38	11/02/21 13:37	1
o-Terphenyl (Surr)	95		70 - 130			11/02/21 08:38	11/02/21 13:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	252		4.95	mg/Kg			11/07/21 18:55	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-381 2.5'

Lab Sample ID: 880-7765-5

Date Collected: 10/27/21 08:05

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 18:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 18:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 18:40	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		11/01/21 11:02	11/01/21 18:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 18:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/01/21 11:02	11/01/21 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	11/01/21 11:02	11/01/21 18:40	1
1,4-Difluorobenzene (Surr)	107		70 - 130	11/01/21 11:02	11/01/21 18:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/02/21 08:38	11/02/21 13:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/02/21 08:38	11/02/21 13:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/02/21 08:38	11/02/21 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	11/02/21 08:38	11/02/21 13:57	1
o-Terphenyl (Surr)	105		70 - 130	11/02/21 08:38	11/02/21 13:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	527		4.99	mg/Kg			11/07/21 19:03	1

Client Sample ID: C-347 2.5'

Lab Sample ID: 880-7765-6

Date Collected: 10/27/21 08:06

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 19:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 19:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 19:01	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/21 11:02	11/01/21 19:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 19:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/21 11:02	11/01/21 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	11/01/21 11:02	11/01/21 19:01	1
1,4-Difluorobenzene (Surr)	108		70 - 130	11/01/21 11:02	11/01/21 19:01	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-347 2.5'

Lab Sample ID: 880-7765-6

Date Collected: 10/27/21 08:06

Matrix: Solid

Date Received: 10/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 14:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 14:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 14:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			11/02/21 08:38	11/02/21 14:18	1
o-Terphenyl (Surr)	103		70 - 130			11/02/21 08:38	11/02/21 14:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.1		5.04	mg/Kg			11/07/21 19:25	1

Client Sample ID: C-323 0-4.1'

Lab Sample ID: 880-7765-7

Date Collected: 10/27/21 08:30

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 19:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 19:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 19:22	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/21 11:02	11/01/21 19:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 19:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/21 11:02	11/01/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			11/01/21 11:02	11/01/21 19:22	1
1,4-Difluorobenzene (Surr)	96		70 - 130			11/01/21 11:02	11/01/21 19:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/02/21 08:38	11/02/21 14:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/02/21 08:38	11/02/21 14:39	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-323 0-4.1'

Lab Sample ID: 880-7765-7

Date Collected: 10/27/21 08:30

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/02/21 08:38	11/02/21 14:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			11/02/21 08:38	11/02/21 14:39	1
o-Terphenyl (Surr)	91		70 - 130			11/02/21 08:38	11/02/21 14:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		5.00	mg/Kg			11/07/21 19:33	1

Client Sample ID: C-326 0-4.1'

Lab Sample ID: 880-7765-8

Date Collected: 10/27/21 08:31

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 19:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 19:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 19:43	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/01/21 11:02	11/01/21 19:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 19:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/21 11:02	11/01/21 19:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			11/01/21 11:02	11/01/21 19:43	1
1,4-Difluorobenzene (Surr)	109		70 - 130			11/01/21 11:02	11/01/21 19:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 15:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 15:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 15:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			11/02/21 08:38	11/02/21 15:00	1
o-Terphenyl (Surr)	107		70 - 130			11/02/21 08:38	11/02/21 15:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	633		4.95	mg/Kg			11/07/21 19:40	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-955 3'

Lab Sample ID: 880-7765-9

Date Collected: 10/27/21 09:00

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 20:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 20:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 20:04	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/01/21 11:02	11/01/21 20:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 20:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/21 11:02	11/01/21 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	11/01/21 11:02	11/01/21 20:04	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/01/21 11:02	11/01/21 20:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 15:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 15:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	11/02/21 08:38	11/02/21 15:20	1
o-Terphenyl (Surr)	107		70 - 130	11/02/21 08:38	11/02/21 15:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		4.97	mg/Kg			11/07/21 19:47	1

Client Sample ID: C-951 3'

Lab Sample ID: 880-7765-10

Date Collected: 10/27/21 09:01

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/01/21 11:02	11/01/21 20:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/01/21 11:02	11/01/21 20:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/01/21 11:02	11/01/21 20:25	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		11/01/21 11:02	11/01/21 20:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/01/21 11:02	11/01/21 20:25	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/01/21 11:02	11/01/21 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	11/01/21 11:02	11/01/21 20:25	1
1,4-Difluorobenzene (Surr)	107		70 - 130	11/01/21 11:02	11/01/21 20:25	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-951 3'

Lab Sample ID: 880-7765-10

Date Collected: 10/27/21 09:01

Matrix: Solid

Date Received: 10/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 15:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 15:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 15:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			11/02/21 08:38	11/02/21 15:42	1
o-Terphenyl (Surr)	108		70 - 130			11/02/21 08:38	11/02/21 15:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	336		4.98	mg/Kg			11/07/21 19:55	1

Client Sample ID: C-919 2.5'

Lab Sample ID: 880-7765-11

Date Collected: 10/27/21 09:05

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 21:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 21:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 21:49	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		11/01/21 11:02	11/01/21 21:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 21:49	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/01/21 11:02	11/01/21 21:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			11/01/21 11:02	11/01/21 21:49	1
1,4-Difluorobenzene (Surr)	101		70 - 130			11/01/21 11:02	11/01/21 21:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 16:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 16:23	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-919 2.5'

Lab Sample ID: 880-7765-11

Date Collected: 10/27/21 09:05

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 16:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			11/02/21 08:38	11/02/21 16:23	1
o-Terphenyl (Surr)	96		70 - 130			11/02/21 08:38	11/02/21 16:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	395		4.95	mg/Kg			11/07/21 20:02	1

Client Sample ID: C-630 2.5'

Lab Sample ID: 880-7765-12

Date Collected: 10/27/21 12:30

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/01/21 11:02	11/01/21 22:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/01/21 11:02	11/01/21 22:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/01/21 11:02	11/01/21 22:10	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		11/01/21 11:02	11/01/21 22:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/01/21 11:02	11/01/21 22:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/01/21 11:02	11/01/21 22:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			11/01/21 11:02	11/01/21 22:10	1
1,4-Difluorobenzene (Surr)	108		70 - 130			11/01/21 11:02	11/01/21 22:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 16:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 16:44	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 16:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			11/02/21 08:38	11/02/21 16:44	1
o-Terphenyl (Surr)	103		70 - 130			11/02/21 08:38	11/02/21 16:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	890		5.04	mg/Kg			11/07/21 20:24	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-631 2.5'

Lab Sample ID: 880-7765-13

Date Collected: 10/27/21 12:31

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/01/21 11:02	11/01/21 22:31	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/01/21 11:02	11/01/21 22:31	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/01/21 11:02	11/01/21 22:31	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		11/01/21 11:02	11/01/21 22:31	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/01/21 11:02	11/01/21 22:31	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/01/21 11:02	11/01/21 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	11/01/21 11:02	11/01/21 22:31	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/01/21 11:02	11/01/21 22:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 17:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 17:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	11/02/21 08:38	11/02/21 17:05	1
o-Terphenyl (Surr)	94		70 - 130	11/02/21 08:38	11/02/21 17:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	651	*-	5.00	mg/Kg			11/04/21 04:35	1

Client Sample ID: C-470 2.5'

Lab Sample ID: 880-7765-14

Date Collected: 10/27/21 12:32

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 22:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 22:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 22:52	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		11/01/21 11:02	11/01/21 22:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 22:52	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/01/21 11:02	11/01/21 22:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/01/21 11:02	11/01/21 22:52	1
1,4-Difluorobenzene (Surr)	107		70 - 130	11/01/21 11:02	11/01/21 22:52	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-470 2.5'

Lab Sample ID: 880-7765-14

Date Collected: 10/27/21 12:32

Matrix: Solid

Date Received: 10/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 17:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 17:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			11/02/21 08:38	11/02/21 17:26	1
o-Terphenyl (Surr)	100		70 - 130			11/02/21 08:38	11/02/21 17:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230	*-	4.95	mg/Kg			11/04/21 04:42	1

Client Sample ID: C632 2.5'

Lab Sample ID: 880-7765-15

Date Collected: 10/27/21 12:33

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00218		0.00199	mg/Kg		11/01/21 11:02	11/01/21 23:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 23:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 23:12	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/21 11:02	11/01/21 23:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/01/21 23:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/21 11:02	11/01/21 23:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130			11/01/21 11:02	11/01/21 23:12	1
1,4-Difluorobenzene (Surr)	105		70 - 130			11/01/21 11:02	11/01/21 23:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 17:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 17:46	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C632 2.5'

Lab Sample ID: 880-7765-15

Date Collected: 10/27/21 12:33

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 17:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			11/02/21 08:38	11/02/21 17:46	1
o-Terphenyl (Surr)	102		70 - 130			11/02/21 08:38	11/02/21 17:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	734	*-	4.97	mg/Kg			11/04/21 04:50	1

Client Sample ID: C-622 2.5'

Lab Sample ID: 880-7765-16

Date Collected: 10/27/21 12:38

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/01/21 11:02	11/01/21 23:33	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/01/21 11:02	11/01/21 23:33	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/01/21 11:02	11/01/21 23:33	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		11/01/21 11:02	11/01/21 23:33	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/01/21 11:02	11/01/21 23:33	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		11/01/21 11:02	11/01/21 23:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			11/01/21 11:02	11/01/21 23:33	1
1,4-Difluorobenzene (Surr)	98		70 - 130			11/01/21 11:02	11/01/21 23:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/02/21 08:38	11/02/21 18:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/02/21 08:38	11/02/21 18:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/02/21 08:38	11/02/21 18:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			11/02/21 08:38	11/02/21 18:06	1
o-Terphenyl (Surr)	99		70 - 130			11/02/21 08:38	11/02/21 18:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	721	*-	4.98	mg/Kg			11/04/21 04:57	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-633 2.5'

Lab Sample ID: 880-7765-17

Date Collected: 10/27/21 12:40

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 23:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 23:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 23:53	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		11/01/21 11:02	11/01/21 23:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 23:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/01/21 11:02	11/01/21 23:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	11/01/21 11:02	11/01/21 23:53	1
1,4-Difluorobenzene (Surr)	103		70 - 130	11/01/21 11:02	11/01/21 23:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 18:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 18:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	11/02/21 08:38	11/02/21 18:26	1
o-Terphenyl (Surr)	101		70 - 130	11/02/21 08:38	11/02/21 18:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	206	*-	4.95	mg/Kg			11/04/21 05:04	1

Client Sample ID: C-601 2.5'

Lab Sample ID: 880-7765-18

Date Collected: 10/27/21 12:42

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/01/21 11:02	11/02/21 00:14	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/01/21 11:02	11/02/21 00:14	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/01/21 11:02	11/02/21 00:14	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		11/01/21 11:02	11/02/21 00:14	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/01/21 11:02	11/02/21 00:14	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		11/01/21 11:02	11/02/21 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	11/01/21 11:02	11/02/21 00:14	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/01/21 11:02	11/02/21 00:14	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-601 2.5'

Lab Sample ID: 880-7765-18

Date Collected: 10/27/21 12:42

Matrix: Solid

Date Received: 10/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 18:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 18:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			11/02/21 08:38	11/02/21 18:46	1
o-Terphenyl (Surr)	104		70 - 130			11/02/21 08:38	11/02/21 18:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	380	*-	5.04	mg/Kg			11/04/21 05:25	1

Client Sample ID: C-605 2.5'

Lab Sample ID: 880-7765-19

Date Collected: 10/27/21 12:43

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/02/21 00:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/02/21 00:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/02/21 00:35	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/21 11:02	11/02/21 00:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/21 11:02	11/02/21 00:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/21 11:02	11/02/21 00:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			11/01/21 11:02	11/02/21 00:35	1
1,4-Difluorobenzene (Surr)	103		70 - 130			11/01/21 11:02	11/02/21 00:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 19:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 19:06	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-605 2.5'

Lab Sample ID: 880-7765-19

Date Collected: 10/27/21 12:43

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 08:38	11/02/21 19:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			11/02/21 08:38	11/02/21 19:06	1
o-Terphenyl (Surr)	118		70 - 130			11/02/21 08:38	11/02/21 19:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	958	*-	5.01	mg/Kg			11/04/21 05:33	1

Client Sample ID: C-604 2.5'

Lab Sample ID: 880-7765-20

Date Collected: 10/27/21 12:44

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/01/21 11:02	11/02/21 00:55	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/01/21 11:02	11/02/21 00:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/01/21 11:02	11/02/21 00:55	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		11/01/21 11:02	11/02/21 00:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/01/21 11:02	11/02/21 00:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/01/21 11:02	11/02/21 00:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			11/01/21 11:02	11/02/21 00:55	1
1,4-Difluorobenzene (Surr)	102		70 - 130			11/01/21 11:02	11/02/21 00:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/03/21 10:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/02/21 08:38	11/02/21 19:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/02/21 08:38	11/02/21 19:26	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/02/21 08:38	11/02/21 19:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			11/02/21 08:38	11/02/21 19:26	1
o-Terphenyl (Surr)	109		70 - 130			11/02/21 08:38	11/02/21 19:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	736	*-	5.00	mg/Kg			11/04/21 05:54	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-597 2.5'

Lab Sample ID: 880-7765-21

Date Collected: 10/27/21 12:46

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202	mg/Kg		11/01/21 12:47	11/02/21 03:52	1
Toluene	<0.00202	U F1	0.00202	mg/Kg		11/01/21 12:47	11/02/21 03:52	1
Ethylbenzene	<0.00202	U F1	0.00202	mg/Kg		11/01/21 12:47	11/02/21 03:52	1
m,p-Xylenes	<0.00403	U F1	0.00403	mg/Kg		11/01/21 12:47	11/02/21 03:52	1
o-Xylene	<0.00202	U F1	0.00202	mg/Kg		11/01/21 12:47	11/02/21 03:52	1
Xylenes, Total	<0.00403	U F1	0.00403	mg/Kg		11/01/21 12:47	11/02/21 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	11/01/21 12:47	11/02/21 03:52	1
1,4-Difluorobenzene (Surr)	184	S1+	70 - 130	11/01/21 12:47	11/02/21 03:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 08:46	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/02/21 14:31	11/03/21 21:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/03/21 21:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/03/21 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	11/02/21 14:31	11/03/21 21:06	1
o-Terphenyl (Surr)	105		70 - 130	11/02/21 14:31	11/03/21 21:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	776	*-	5.02	mg/Kg			11/04/21 06:01	1

Client Sample ID: C-590 2.5'

Lab Sample ID: 880-7765-22

Date Collected: 10/27/21 12:53

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 04:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 04:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 04:18	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/01/21 12:47	11/02/21 04:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 04:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/21 12:47	11/02/21 04:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	11/01/21 12:47	11/02/21 04:18	1
1,4-Difluorobenzene (Surr)	169	S1+	70 - 130	11/01/21 12:47	11/02/21 04:18	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-590 2.5'

Lab Sample ID: 880-7765-22

Date Collected: 10/27/21 12:53

Matrix: Solid

Date Received: 10/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/02/21 14:31	11/03/21 22:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/03/21 22:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/03/21 22:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			11/02/21 14:31	11/03/21 22:16	1
o-Terphenyl (Surr)	111		70 - 130			11/02/21 14:31	11/03/21 22:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	750	*-	4.98	mg/Kg			11/04/21 06:08	1

Client Sample ID: C-583 2.5'

Lab Sample ID: 880-7765-23

Date Collected: 10/27/21 12:55

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/01/21 12:47	11/02/21 04:44	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/01/21 12:47	11/02/21 04:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/01/21 12:47	11/02/21 04:44	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		11/01/21 12:47	11/02/21 04:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/01/21 12:47	11/02/21 04:44	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/01/21 12:47	11/02/21 04:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130			11/01/21 12:47	11/02/21 04:44	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130			11/01/21 12:47	11/02/21 04:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		11/02/21 14:31	11/03/21 22:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/03/21 22:39	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-583 2.5'

Lab Sample ID: 880-7765-23

Date Collected: 10/27/21 12:55

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/03/21 22:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			11/02/21 14:31	11/03/21 22:39	1
o-Terphenyl (Surr)	124		70 - 130			11/02/21 14:31	11/03/21 22:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	923	*-	4.97	mg/Kg			11/04/21 06:16	1

Client Sample ID: C-572 2.5'

Lab Sample ID: 880-7765-24

Date Collected: 10/27/21 12:56

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/01/21 12:47	11/02/21 05:10	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/01/21 12:47	11/02/21 05:10	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/01/21 12:47	11/02/21 05:10	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		11/01/21 12:47	11/02/21 05:10	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/01/21 12:47	11/02/21 05:10	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/01/21 12:47	11/02/21 05:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			11/01/21 12:47	11/02/21 05:10	1
1,4-Difluorobenzene (Surr)	202	S1+	70 - 130			11/01/21 12:47	11/02/21 05:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		11/02/21 14:31	11/03/21 23:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/03/21 23:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/03/21 23:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			11/02/21 14:31	11/03/21 23:00	1
o-Terphenyl (Surr)	112		70 - 130			11/02/21 14:31	11/03/21 23:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	226	*-	4.95	mg/Kg			11/04/21 06:23	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-567 2.5'

Lab Sample ID: 880-7765-25

Date Collected: 10/27/21 12:57

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 05:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 05:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 05:36	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/21 12:47	11/02/21 05:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 05:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/21 12:47	11/02/21 05:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	11/01/21 12:47	11/02/21 05:36	1
1,4-Difluorobenzene (Surr)	209	S1+	70 - 130	11/01/21 12:47	11/02/21 05:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		11/02/21 14:31	11/03/21 23:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/02/21 14:31	11/03/21 23:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/02/21 14:31	11/03/21 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	11/02/21 14:31	11/03/21 23:21	1
o-Terphenyl (Surr)	109		70 - 130	11/02/21 14:31	11/03/21 23:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	239	*-	4.95	mg/Kg			11/04/21 06:30	1

Client Sample ID: C-566 2.5'

Lab Sample ID: 880-7765-26

Date Collected: 10/27/21 12:58

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 06:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 06:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 06:03	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		11/01/21 12:47	11/02/21 06:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 06:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/01/21 12:47	11/02/21 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	11/01/21 12:47	11/02/21 06:03	1
1,4-Difluorobenzene (Surr)	196	S1+	70 - 130	11/01/21 12:47	11/02/21 06:03	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-566 2.5'

Lab Sample ID: 880-7765-26

Date Collected: 10/27/21 12:58

Matrix: Solid

Date Received: 10/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		11/02/21 14:31	11/03/21 23:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/03/21 23:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/03/21 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			11/02/21 14:31	11/03/21 23:41	1
o-Terphenyl (Surr)	112		70 - 130			11/02/21 14:31	11/03/21 23:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	746	*-	5.00	mg/Kg			11/04/21 06:37	1

Client Sample ID: C-565 2.5'

Lab Sample ID: 880-7765-27

Date Collected: 10/27/21 12:59

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 06:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 06:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 06:30	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/21 12:47	11/02/21 06:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 06:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/21 12:47	11/02/21 06:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			11/01/21 12:47	11/02/21 06:30	1
1,4-Difluorobenzene (Surr)	201	S1+	70 - 130			11/01/21 12:47	11/02/21 06:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		11/02/21 14:31	11/04/21 00:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/02/21 14:31	11/04/21 00:02	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-565 2.5'

Lab Sample ID: 880-7765-27

Date Collected: 10/27/21 12:59

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/02/21 14:31	11/04/21 00:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			11/02/21 14:31	11/04/21 00:02	1
o-Terphenyl (Surr)	111		70 - 130			11/02/21 14:31	11/04/21 00:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		5.00	mg/Kg			11/08/21 00:02	1

Client Sample ID: C-562 2.5'

Lab Sample ID: 880-7765-28

Date Collected: 10/27/21 13:00

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 06:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 06:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 06:58	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/21 12:47	11/02/21 06:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 06:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/21 12:47	11/02/21 06:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130			11/01/21 12:47	11/02/21 06:58	1
1,4-Difluorobenzene (Surr)	207	S1+	70 - 130			11/01/21 12:47	11/02/21 06:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		11/02/21 14:31	11/04/21 00:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/04/21 00:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/04/21 00:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			11/02/21 14:31	11/04/21 00:23	1
o-Terphenyl (Surr)	113		70 - 130			11/02/21 14:31	11/04/21 00:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	761		4.99	mg/Kg			11/08/21 00:25	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-571 2.5'

Lab Sample ID: 880-7765-29

Date Collected: 10/27/21 13:01

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 07:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 07:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 07:25	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/01/21 12:47	11/02/21 07:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 07:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/21 12:47	11/02/21 07:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	11/01/21 12:47	11/02/21 07:25	1
1,4-Difluorobenzene (Surr)	208	S1+	70 - 130	11/01/21 12:47	11/02/21 07:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/02/21 14:31	11/04/21 00:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/04/21 00:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/04/21 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	11/02/21 14:31	11/04/21 00:44	1
o-Terphenyl (Surr)	113		70 - 130	11/02/21 14:31	11/04/21 00:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.3		4.98	mg/Kg			11/08/21 00:32	1

Client Sample ID: C-589 2.5'

Lab Sample ID: 880-7765-30

Date Collected: 10/27/21 13:02

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 07:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 07:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 07:53	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/21 12:47	11/02/21 07:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 07:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/21 12:47	11/02/21 07:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	11/01/21 12:47	11/02/21 07:53	1
1,4-Difluorobenzene (Surr)	207	S1+	70 - 130	11/01/21 12:47	11/02/21 07:53	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-589 2.5'

Lab Sample ID: 880-7765-30

Date Collected: 10/27/21 13:02

Matrix: Solid

Date Received: 10/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/03/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/02/21 14:31	11/04/21 01:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/04/21 01:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/04/21 01:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130			11/02/21 14:31	11/04/21 01:05	1
o-Terphenyl (Surr)	138	S1+	70 - 130			11/02/21 14:31	11/04/21 01:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235		4.95	mg/Kg			11/08/21 00:40	1

Client Sample ID: C-579 2.5'

Lab Sample ID: 880-7765-31

Date Collected: 10/27/21 13:03

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 10:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 10:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 10:32	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		11/01/21 12:47	11/02/21 10:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 10:32	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/01/21 12:47	11/02/21 10:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			11/01/21 12:47	11/02/21 10:32	1
1,4-Difluorobenzene (Surr)	181	S1+	70 - 130			11/01/21 12:47	11/02/21 10:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/05/21 13:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/02/21 14:31	11/04/21 01:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/04/21 01:48	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-579 2.5'

Lab Sample ID: 880-7765-31

Date Collected: 10/27/21 13:03

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/04/21 01:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			11/02/21 14:31	11/04/21 01:48	1
o-Terphenyl (Surr)	116		70 - 130			11/02/21 14:31	11/04/21 01:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	356		4.99	mg/Kg			11/08/21 00:48	1

Client Sample ID: C-471 2.5'

Lab Sample ID: 880-7765-32

Date Collected: 10/27/21 13:05

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 11:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 11:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 11:01	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		11/01/21 12:47	11/02/21 11:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 11:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/01/21 12:47	11/02/21 11:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			11/01/21 12:47	11/02/21 11:01	1
1,4-Difluorobenzene (Surr)	182	S1+	70 - 130			11/01/21 12:47	11/02/21 11:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/05/21 13:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/02/21 14:31	11/04/21 02:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/04/21 02:09	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/04/21 02:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			11/02/21 14:31	11/04/21 02:09	1
o-Terphenyl (Surr)	114		70 - 130			11/02/21 14:31	11/04/21 02:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	297		5.04	mg/Kg			11/08/21 01:11	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-561 2.5'

Lab Sample ID: 880-7765-33

Date Collected: 10/27/21 13:06

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/01/21 12:47	11/02/21 11:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/01/21 12:47	11/02/21 11:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/01/21 12:47	11/02/21 11:28	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		11/01/21 12:47	11/02/21 11:28	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/01/21 12:47	11/02/21 11:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/01/21 12:47	11/02/21 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	11/01/21 12:47	11/02/21 11:28	1
1,4-Difluorobenzene (Surr)	195	S1+	70 - 130	11/01/21 12:47	11/02/21 11:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/05/21 13:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/02/21 14:31	11/04/21 02:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/04/21 02:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/04/21 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	11/02/21 14:31	11/04/21 02:31	1
o-Terphenyl (Surr)	110		70 - 130	11/02/21 14:31	11/04/21 02:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	695		5.00	mg/Kg			11/08/21 01:18	1

Client Sample ID: C-586 2.5'

Lab Sample ID: 880-7765-34

Date Collected: 10/27/21 13:07

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 11:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 11:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 11:56	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		11/01/21 12:47	11/02/21 11:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 11:56	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/01/21 12:47	11/02/21 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	11/01/21 12:47	11/02/21 11:56	1
1,4-Difluorobenzene (Surr)	197	S1+	70 - 130	11/01/21 12:47	11/02/21 11:56	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-586 2.5'

Lab Sample ID: 880-7765-34

Date Collected: 10/27/21 13:07

Matrix: Solid

Date Received: 10/29/21 15:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/05/21 13:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/02/21 14:31	11/04/21 02:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/04/21 02:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/21 14:31	11/04/21 02:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			11/02/21 14:31	11/04/21 02:52	1
o-Terphenyl (Surr)	108		70 - 130			11/02/21 14:31	11/04/21 02:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	629		4.95	mg/Kg			11/08/21 01:26	1

Client Sample ID: C-550 2.5'

Lab Sample ID: 880-7765-35

Date Collected: 10/27/21 13:08

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 12:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 12:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 12:24	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/21 12:47	11/02/21 12:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/21 12:47	11/02/21 12:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/21 12:47	11/02/21 12:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			11/01/21 12:47	11/02/21 12:24	1
1,4-Difluorobenzene (Surr)	201	S1+	70 - 130			11/01/21 12:47	11/02/21 12:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/05/21 13:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		11/02/21 14:31	11/04/21 03:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/04/21 03:14	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-550 2.5'

Lab Sample ID: 880-7765-35

Date Collected: 10/27/21 13:08

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/04/21 03:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			11/02/21 14:31	11/04/21 03:14	1
o-Terphenyl (Surr)	107		70 - 130			11/02/21 14:31	11/04/21 03:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.2		4.97	mg/Kg			11/08/21 01:34	1

Client Sample ID: C-554 2.5'

Lab Sample ID: 880-7765-36

Date Collected: 10/27/21 13:09

Matrix: Solid

Date Received: 10/29/21 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/01/21 12:47	11/02/21 13:27	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/01/21 12:47	11/02/21 13:27	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/01/21 12:47	11/02/21 13:27	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		11/01/21 12:47	11/02/21 13:27	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/01/21 12:47	11/02/21 13:27	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/01/21 12:47	11/02/21 13:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			11/01/21 12:47	11/02/21 13:27	1
1,4-Difluorobenzene (Surr)	174	S1+	70 - 130			11/01/21 12:47	11/02/21 13:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/05/21 13:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/03/21 12:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		11/02/21 14:31	11/04/21 03:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/02/21 14:31	11/04/21 03:36	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/02/21 14:31	11/04/21 03:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			11/02/21 14:31	11/04/21 03:36	1
o-Terphenyl (Surr)	111		70 - 130			11/02/21 14:31	11/04/21 03:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		4.98	mg/Kg			11/08/21 01:41	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-7765-1	C-346 2.5'	100	94
880-7765-1 MS	C-346 2.5'	97	99
880-7765-1 MSD	C-346 2.5'	99	293 S1+
880-7765-2	C-344 2.5'	100	113
880-7765-3	C-380 2.5'	101	92
880-7765-4	C-361 2.5'	104	106
880-7765-5	C-381 2.5'	99	107
880-7765-6	C-347 2.5'	104	108
880-7765-7	C-323 0-4.1'	94	96
880-7765-8	C-326 0-4.1'	97	109
880-7765-9	C-955 3'	98	106
880-7765-10	C-951 3'	93	107
880-7765-11	C-919 2.5'	95	101
880-7765-12	C-630 2.5'	101	108
880-7765-13	C-631 2.5'	108	101
880-7765-14	C-470 2.5'	101	107
880-7765-15	C632 2.5'	166 S1+	105
880-7765-16	C-622 2.5'	107	98
880-7765-17	C-633 2.5'	108	103
880-7765-18	C-601 2.5'	108	102
880-7765-19	C-605 2.5'	112	103
880-7765-20	C-604 2.5'	108	102
880-7765-21	C-597 2.5'	97	184 S1+
880-7765-21 MS	C-597 2.5'	73	194 S1+
880-7765-21 MSD	C-597 2.5'	72	231 S1+
880-7765-22	C-590 2.5'	77	169 S1+
880-7765-23	C-583 2.5'	75	132 S1+
880-7765-24	C-572 2.5'	85	202 S1+
880-7765-25	C-567 2.5'	97	209 S1+
880-7765-26	C-566 2.5'	95	196 S1+
880-7765-27	C-565 2.5'	83	201 S1+
880-7765-28	C-562 2.5'	75	207 S1+
880-7765-29	C-571 2.5'	84	208 S1+
880-7765-30	C-589 2.5'	85	207 S1+
880-7765-31	C-579 2.5'	93	181 S1+
880-7765-32	C-471 2.5'	90	182 S1+
880-7765-33	C-561 2.5'	87	195 S1+
880-7765-34	C-586 2.5'	82	197 S1+
880-7765-35	C-550 2.5'	88	201 S1+
880-7765-36	C-554 2.5'	90	174 S1+
LCS 880-11074/1-A	Lab Control Sample	105	95
LCS 880-11123/1-A	Lab Control Sample	83	207 S1+
LCSD 880-11074/2-A	Lab Control Sample Dup	98	103
MB 880-11059/5-A	Method Blank	63 S1-	133 S1+
MB 880-11074/5-A	Method Blank	112	102
MB 880-11123/5-A	Method Blank	65 S1-	192 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID		
LCSD 880-11123/2-A	Lab Control Sample Dup		
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-7765-1	C-346 2.5'	95	101
880-7765-1 MS	C-346 2.5'	92	87
880-7765-1 MSD	C-346 2.5'	92	87
880-7765-2	C-344 2.5'	95	101
880-7765-3	C-380 2.5'	103	112
880-7765-4	C-361 2.5'	90	95
880-7765-5	C-381 2.5'	102	105
880-7765-6	C-347 2.5'	98	103
880-7765-7	C-323 0-4.1'	88	91
880-7765-8	C-326 0-4.1'	103	107
880-7765-9	C-955 3'	102	107
880-7765-10	C-951 3'	103	108
880-7765-11	C-919 2.5'	91	96
880-7765-12	C-630 2.5'	98	103
880-7765-13	C-631 2.5'	91	94
880-7765-14	C-470 2.5'	91	100
880-7765-15	C632 2.5'	95	102
880-7765-16	C-622 2.5'	96	99
880-7765-17	C-633 2.5'	95	101
880-7765-18	C-601 2.5'	97	104
880-7765-19	C-605 2.5'	102	118
880-7765-20	C-604 2.5'	99	109
880-7765-21	C-597 2.5'	94	105
880-7765-21 MS	C-597 2.5'	97	98
880-7765-21 MSD	C-597 2.5'	99	99
880-7765-22	C-590 2.5'	100	111
880-7765-23	C-583 2.5'	104	124
880-7765-24	C-572 2.5'	98	112
880-7765-25	C-567 2.5'	98	109
880-7765-26	C-566 2.5'	101	112
880-7765-27	C-565 2.5'	98	111
880-7765-28	C-562 2.5'	97	113
880-7765-29	C-571 2.5'	101	113
880-7765-30	C-589 2.5'	124	138 S1+
880-7765-31	C-579 2.5'	99	116
880-7765-32	C-471 2.5'	100	114
880-7765-33	C-561 2.5'	97	110
880-7765-34	C-586 2.5'	94	108

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-7765-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-7765-35	C-550 2.5'	96	107
880-7765-36	C-554 2.5'	98	111
LCS 880-11197/2-A	Lab Control Sample	85	80
LCS 880-11249/2-A	Lab Control Sample	107	119
LCSD 880-11197/3-A	Lab Control Sample Dup	88	86
LCSD 880-11249/3-A	Lab Control Sample Dup	105	115
MB 880-11197/1-A	Method Blank	105	115
MB 880-11249/1-A	Method Blank	117	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11059/5-A

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11059

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 10:32	11/01/21 13:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 10:32	11/01/21 13:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 10:32	11/01/21 13:19	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/01/21 10:32	11/01/21 13:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 10:32	11/01/21 13:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/21 10:32	11/01/21 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	11/01/21 10:32	11/01/21 13:19	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130	11/01/21 10:32	11/01/21 13:19	1

Lab Sample ID: MB 880-11074/5-A

Matrix: Solid

Analysis Batch: 11119

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11074

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 16:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 16:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 16:56	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/01/21 11:02	11/01/21 16:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 11:02	11/01/21 16:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/21 11:02	11/01/21 16:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/01/21 11:02	11/01/21 16:56	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/01/21 11:02	11/01/21 16:56	1

Lab Sample ID: LCS 880-11074/1-A

Matrix: Solid

Analysis Batch: 11119

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09935		mg/Kg		99	70 - 130
Toluene	0.100	0.09468		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1071		mg/Kg		107	70 - 130
m,p-Xylenes	0.200	0.2030		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-11074/2-A

Matrix: Solid

Analysis Batch: 11119

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11074

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1004		mg/Kg		100	70 - 130	1	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-11074/2-A

Matrix: Solid

Analysis Batch: 11119

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11074

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08990		mg/Kg		90	70 - 130	5	35
Ethylbenzene	0.100	0.09548		mg/Kg		95	70 - 130	12	35
m,p-Xylenes	0.200	0.1803		mg/Kg		90	70 - 130	12	35
o-Xylene	0.100	0.08786		mg/Kg		88	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-7765-1 MS

Matrix: Solid

Analysis Batch: 11119

Client Sample ID: C-346 2.5'

Prep Type: Total/NA

Prep Batch: 11074

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1 F2	0.0992	0.07207		mg/Kg		73	70 - 130
Toluene	<0.00199	U F1	0.0992	0.06002	F1	mg/Kg		61	70 - 130
Ethylbenzene	<0.00199	U F1	0.0992	0.06547	F1	mg/Kg		66	70 - 130
m,p-Xylenes	<0.00398	U F1	0.198	0.1234	F1	mg/Kg		62	70 - 130
o-Xylene	<0.00199	U F1	0.0992	<0.00198	U F1	mg/Kg		0	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-7765-1 MSD

Matrix: Solid

Analysis Batch: 11119

Client Sample ID: C-346 2.5'

Prep Type: Total/NA

Prep Batch: 11074

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.0998	0.02573	F1 F2	mg/Kg		26	70 - 130	95	35
Toluene	<0.00199	U F1	0.0998	0.04921	F1	mg/Kg		49	70 - 130	20	35
Ethylbenzene	<0.00199	U F1	0.0998	0.05428	F1	mg/Kg		54	70 - 130	19	35
m,p-Xylenes	<0.00398	U F1	0.200	0.1015	F1	mg/Kg		51	70 - 130	20	35
o-Xylene	<0.00199	U F1	0.0998	0.05408	F1	mg/Kg		54	70 - 130	NC	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	293	S1+	70 - 130

Lab Sample ID: MB 880-11123/5-A

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11123

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 03:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 03:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 03:23	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/01/21 12:47	11/02/21 03:23	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-11123/5-A

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11123

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 12:47	11/02/21 03:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/21 12:47	11/02/21 03:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130	11/01/21 12:47	11/02/21 03:23	1
1,4-Difluorobenzene (Surr)	192	S1+	70 - 130	11/01/21 12:47	11/02/21 03:23	1

Lab Sample ID: LCS 880-11123/1-A

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1103		mg/Kg		110	70 - 130
Toluene	0.100	0.1108		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130
m,p-Xylenes	0.200	0.2101		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1216		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	207	S1+	70 - 130

Lab Sample ID: LCSD 880-11123/2-A

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11123

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1036		mg/Kg					
Toluene	0.100	0.001183	J	mg/Kg					
Ethylbenzene	0.100	0.09202		mg/Kg					
m,p-Xylenes	0.200	0.02481		mg/Kg					
o-Xylene	0.100	0.1013		mg/Kg					

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 880-7765-21 MS

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: C-597 2.5'

Prep Type: Total/NA

Prep Batch: 11123

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1	0.0998	0.03948	F1	mg/Kg		40	70 - 130
Toluene	<0.00202	U F1	0.0998	0.04463	F1	mg/Kg		45	70 - 130
Ethylbenzene	<0.00202	U F1	0.0998	0.07329		mg/Kg		73	70 - 130
m,p-Xylenes	<0.00403	U F1	0.200	0.1004	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00202	U F1	0.0998	0.06218	F1	mg/Kg		62	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-7765-21 MS

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: C-597 2.5'

Prep Type: Total/NA

Prep Batch: 11123

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	73		70 - 130
1,4-Difluorobenzene (Surr)	194	S1+	70 - 130

Lab Sample ID: 880-7765-21 MSD

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: C-597 2.5'

Prep Type: Total/NA

Prep Batch: 11123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.100	0.04279	F1	mg/Kg		43	70 - 130	8	35
Toluene	<0.00202	U F1	0.100	0.04136	F1	mg/Kg		41	70 - 130	8	35
Ethylbenzene	<0.00202	U F1	0.100	0.05184	F1	mg/Kg		52	70 - 130	34	35
m,p-Xylenes	<0.00403	U F1	0.201	0.09707	F1	mg/Kg		48	70 - 130	3	35
o-Xylene	<0.00202	U F1	0.100	0.05910	F1	mg/Kg		59	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	72		70 - 130
1,4-Difluorobenzene (Surr)	231	S1+	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-11197/1-A

Matrix: Solid

Analysis Batch: 11189

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11197

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 10:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 10:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 08:38	11/02/21 10:52	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	105		70 - 130	11/02/21 08:38	11/02/21 10:52	1		
o-Terphenyl (Surr)	115		70 - 130	11/02/21 08:38	11/02/21 10:52	1		

Lab Sample ID: LCS 880-11197/2-A

Matrix: Solid

Analysis Batch: 11189

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1093		mg/Kg		109	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	744.9		mg/Kg		74	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	85		70 - 130
o-Terphenyl (Surr)	80		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-11197/3-A

Matrix: Solid

Analysis Batch: 11189

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11197

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1150		mg/Kg		115	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	750.1		mg/Kg		75	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	88		70 - 130						
o-Terphenyl (Surr)	86		70 - 130						

Lab Sample ID: 880-7765-1 MS

Matrix: Solid

Analysis Batch: 11189

Client Sample ID: C-346 2.5'

Prep Type: Total/NA

Prep Batch: 11197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1424	F1	mg/Kg		143	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	873.0		mg/Kg		85	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	92		70 - 130								
o-Terphenyl (Surr)	87		70 - 130								

Lab Sample ID: 880-7765-1 MSD

Matrix: Solid

Analysis Batch: 11189

Client Sample ID: C-346 2.5'

Prep Type: Total/NA

Prep Batch: 11197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	1338	F1	mg/Kg		134	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	886.1		mg/Kg		86	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	92		70 - 130								
o-Terphenyl (Surr)	87		70 - 130								

Lab Sample ID: MB 880-11249/1-A

Matrix: Solid

Analysis Batch: 11321

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11249

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/03/21 19:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/03/21 19:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 14:31	11/03/21 19:59	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-11249/1-A

Matrix: Solid

Analysis Batch: 11321

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11249

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130	11/02/21 14:31	11/03/21 19:59	1
o-Terphenyl (Surr)	139	S1+	70 - 130	11/02/21 14:31	11/03/21 19:59	1

Lab Sample ID: LCS 880-11249/2-A

Matrix: Solid

Analysis Batch: 11321

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11249

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	866.1		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1156		mg/Kg		116	70 - 130		

Surrogate	LCS	LCS				
	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	107		70 - 130			
o-Terphenyl (Surr)	119		70 - 130			

Lab Sample ID: LCSD 880-11249/3-A

Matrix: Solid

Analysis Batch: 11321

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11249

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1127	*1	mg/Kg		113	70 - 130	26	20
Diesel Range Organics (Over C10-C28)			1000	1158		mg/Kg		116	70 - 130	0	20

Surrogate	LCSD	LCSD				
	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	105		70 - 130			
o-Terphenyl (Surr)	115		70 - 130			

Lab Sample ID: 880-7765-21 MS

Matrix: Solid

Analysis Batch: 11321

Client Sample ID: C-597 2.5'

Prep Type: Total/NA

Prep Batch: 11249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	997	1180		mg/Kg		118	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1059		mg/Kg		106	70 - 130		

Surrogate	MS	MS				
	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	97		70 - 130			
o-Terphenyl (Surr)	98		70 - 130			

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-7765-21 MSD

Matrix: Solid

Analysis Batch: 11321

Client Sample ID: C-597 2.5'

Prep Type: Total/NA

Prep Batch: 11249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	1000	1192		mg/Kg		119	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1081		mg/Kg		108	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	99		70 - 130								
o-Terphenyl (Surr)	99		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11148/1-A

Matrix: Solid

Analysis Batch: 11216

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/04/21 03:07	1

Lab Sample ID: LCSD 880-11148/3-A

Matrix: Solid

Analysis Batch: 11216

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.5		mg/Kg					

Lab Sample ID: 880-7765-17 MS

Matrix: Solid

Analysis Batch: 11216

Client Sample ID: C-633 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	206	*-	248	428.5		mg/Kg		90	90 - 110		

Lab Sample ID: 880-7765-17 MSD

Matrix: Solid

Analysis Batch: 11216

Client Sample ID: C-633 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	206	*-	248	440.8		mg/Kg		95	90 - 110	3	20

Lab Sample ID: MB 880-11150/1-A

Matrix: Solid

Analysis Batch: 11217

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/07/21 23:39	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-11150/2-A

Matrix: Solid

Analysis Batch: 11217

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	234.1		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-11150/3-A

Matrix: Solid

Analysis Batch: 11217

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	236.3		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-7765-27 MS

Matrix: Solid

Analysis Batch: 11217

Client Sample ID: C-565 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	122		250	354.8		mg/Kg		93	90 - 110

Lab Sample ID: 880-7765-27 MSD

Matrix: Solid

Analysis Batch: 11217

Client Sample ID: C-565 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	122		250	355.6		mg/Kg		94	90 - 110	0	20

Lab Sample ID: MB 880-11185/1-A

Matrix: Solid

Analysis Batch: 11363

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/07/21 17:57	1

Lab Sample ID: LCS 880-11185/2-A

Matrix: Solid

Analysis Batch: 11363

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	252.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-11185/3-A

Matrix: Solid

Analysis Batch: 11363

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	252.1		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-7765-1 MS

Matrix: Solid

Analysis Batch: 11363

Client Sample ID: C-346 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.5		250	286.5		mg/Kg		94	90 - 110

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-7765-1 MSD

Matrix: Solid

Analysis Batch: 11363

Client Sample ID: C-346 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.5		250	287.0		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-7765-11 MS

Matrix: Solid

Analysis Batch: 11363

Client Sample ID: C-919 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	395		248	638.7		mg/Kg		98	90 - 110		

Lab Sample ID: 880-7765-11 MSD

Matrix: Solid

Analysis Batch: 11363

Client Sample ID: C-919 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	395		248	635.3		mg/Kg		97	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

GC VOA

Analysis Batch: 11027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-21	C-597 2.5'	Total/NA	Solid	8021B	11123
880-7765-22	C-590 2.5'	Total/NA	Solid	8021B	11123
880-7765-23	C-583 2.5'	Total/NA	Solid	8021B	11123
880-7765-24	C-572 2.5'	Total/NA	Solid	8021B	11123
880-7765-25	C-567 2.5'	Total/NA	Solid	8021B	11123
880-7765-26	C-566 2.5'	Total/NA	Solid	8021B	11123
880-7765-27	C-565 2.5'	Total/NA	Solid	8021B	11123
880-7765-28	C-562 2.5'	Total/NA	Solid	8021B	11123
880-7765-29	C-571 2.5'	Total/NA	Solid	8021B	11123
880-7765-30	C-589 2.5'	Total/NA	Solid	8021B	11123
880-7765-31	C-579 2.5'	Total/NA	Solid	8021B	11123
880-7765-32	C-471 2.5'	Total/NA	Solid	8021B	11123
880-7765-33	C-561 2.5'	Total/NA	Solid	8021B	11123
880-7765-34	C-586 2.5'	Total/NA	Solid	8021B	11123
880-7765-35	C-550 2.5'	Total/NA	Solid	8021B	11123
880-7765-36	C-554 2.5'	Total/NA	Solid	8021B	11123
MB 880-11059/5-A	Method Blank	Total/NA	Solid	8021B	11059
MB 880-11123/5-A	Method Blank	Total/NA	Solid	8021B	11123
LCS 880-11123/1-A	Lab Control Sample	Total/NA	Solid	8021B	11123
LCSD 880-11123/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11123
880-7765-21 MS	C-597 2.5'	Total/NA	Solid	8021B	11123
880-7765-21 MSD	C-597 2.5'	Total/NA	Solid	8021B	11123

Prep Batch: 11059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11059/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 11074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-1	C-346 2.5'	Total/NA	Solid	5035	
880-7765-2	C-344 2.5'	Total/NA	Solid	5035	
880-7765-3	C-380 2.5'	Total/NA	Solid	5035	
880-7765-4	C-361 2.5'	Total/NA	Solid	5035	
880-7765-5	C-381 2.5'	Total/NA	Solid	5035	
880-7765-6	C-347 2.5'	Total/NA	Solid	5035	
880-7765-7	C-323 0-4.1'	Total/NA	Solid	5035	
880-7765-8	C-326 0-4.1'	Total/NA	Solid	5035	
880-7765-9	C-955 3'	Total/NA	Solid	5035	
880-7765-10	C-951 3'	Total/NA	Solid	5035	
880-7765-11	C-919 2.5'	Total/NA	Solid	5035	
880-7765-12	C-630 2.5'	Total/NA	Solid	5035	
880-7765-13	C-631 2.5'	Total/NA	Solid	5035	
880-7765-14	C-470 2.5'	Total/NA	Solid	5035	
880-7765-15	C632 2.5'	Total/NA	Solid	5035	
880-7765-16	C-622 2.5'	Total/NA	Solid	5035	
880-7765-17	C-633 2.5'	Total/NA	Solid	5035	
880-7765-18	C-601 2.5'	Total/NA	Solid	5035	
880-7765-19	C-605 2.5'	Total/NA	Solid	5035	
880-7765-20	C-604 2.5'	Total/NA	Solid	5035	
MB 880-11074/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11074/1-A	Lab Control Sample	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 11074 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-11074/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7765-1 MS	C-346 2.5'	Total/NA	Solid	5035	
880-7765-1 MSD	C-346 2.5'	Total/NA	Solid	5035	

Analysis Batch: 11119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-1	C-346 2.5'	Total/NA	Solid	8021B	11074
880-7765-2	C-344 2.5'	Total/NA	Solid	8021B	11074
880-7765-3	C-380 2.5'	Total/NA	Solid	8021B	11074
880-7765-4	C-361 2.5'	Total/NA	Solid	8021B	11074
880-7765-5	C-381 2.5'	Total/NA	Solid	8021B	11074
880-7765-6	C-347 2.5'	Total/NA	Solid	8021B	11074
880-7765-7	C-323 0-4.1'	Total/NA	Solid	8021B	11074
880-7765-8	C-326 0-4.1'	Total/NA	Solid	8021B	11074
880-7765-9	C-955 3'	Total/NA	Solid	8021B	11074
880-7765-10	C-951 3'	Total/NA	Solid	8021B	11074
880-7765-11	C-919 2.5'	Total/NA	Solid	8021B	11074
880-7765-12	C-630 2.5'	Total/NA	Solid	8021B	11074
880-7765-13	C-631 2.5'	Total/NA	Solid	8021B	11074
880-7765-14	C-470 2.5'	Total/NA	Solid	8021B	11074
880-7765-15	C632 2.5'	Total/NA	Solid	8021B	11074
880-7765-16	C-622 2.5'	Total/NA	Solid	8021B	11074
880-7765-17	C-633 2.5'	Total/NA	Solid	8021B	11074
880-7765-18	C-601 2.5'	Total/NA	Solid	8021B	11074
880-7765-19	C-605 2.5'	Total/NA	Solid	8021B	11074
880-7765-20	C-604 2.5'	Total/NA	Solid	8021B	11074
MB 880-11074/5-A	Method Blank	Total/NA	Solid	8021B	11074
LCS 880-11074/1-A	Lab Control Sample	Total/NA	Solid	8021B	11074
LCSD 880-11074/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11074
880-7765-1 MS	C-346 2.5'	Total/NA	Solid	8021B	11074
880-7765-1 MSD	C-346 2.5'	Total/NA	Solid	8021B	11074

Prep Batch: 11123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-21	C-597 2.5'	Total/NA	Solid	5035	
880-7765-22	C-590 2.5'	Total/NA	Solid	5035	
880-7765-23	C-583 2.5'	Total/NA	Solid	5035	
880-7765-24	C-572 2.5'	Total/NA	Solid	5035	
880-7765-25	C-567 2.5'	Total/NA	Solid	5035	
880-7765-26	C-566 2.5'	Total/NA	Solid	5035	
880-7765-27	C-565 2.5'	Total/NA	Solid	5035	
880-7765-28	C-562 2.5'	Total/NA	Solid	5035	
880-7765-29	C-571 2.5'	Total/NA	Solid	5035	
880-7765-30	C-589 2.5'	Total/NA	Solid	5035	
880-7765-31	C-579 2.5'	Total/NA	Solid	5035	
880-7765-32	C-471 2.5'	Total/NA	Solid	5035	
880-7765-33	C-561 2.5'	Total/NA	Solid	5035	
880-7765-34	C-586 2.5'	Total/NA	Solid	5035	
880-7765-35	C-550 2.5'	Total/NA	Solid	5035	
880-7765-36	C-554 2.5'	Total/NA	Solid	5035	
MB 880-11123/5-A	Method Blank	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 11123 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-11123/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11123/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7765-21 MS	C-597 2.5'	Total/NA	Solid	5035	
880-7765-21 MSD	C-597 2.5'	Total/NA	Solid	5035	

Analysis Batch: 11149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-1	C-346 2.5'	Total/NA	Solid	Total BTEX	
880-7765-2	C-344 2.5'	Total/NA	Solid	Total BTEX	
880-7765-3	C-380 2.5'	Total/NA	Solid	Total BTEX	
880-7765-4	C-361 2.5'	Total/NA	Solid	Total BTEX	
880-7765-5	C-381 2.5'	Total/NA	Solid	Total BTEX	
880-7765-6	C-347 2.5'	Total/NA	Solid	Total BTEX	
880-7765-7	C-323 0-4.1'	Total/NA	Solid	Total BTEX	
880-7765-8	C-326 0-4.1'	Total/NA	Solid	Total BTEX	
880-7765-9	C-955 3'	Total/NA	Solid	Total BTEX	
880-7765-10	C-951 3'	Total/NA	Solid	Total BTEX	
880-7765-11	C-919 2.5'	Total/NA	Solid	Total BTEX	
880-7765-12	C-630 2.5'	Total/NA	Solid	Total BTEX	
880-7765-13	C-631 2.5'	Total/NA	Solid	Total BTEX	
880-7765-14	C-470 2.5'	Total/NA	Solid	Total BTEX	
880-7765-15	C632 2.5'	Total/NA	Solid	Total BTEX	
880-7765-16	C-622 2.5'	Total/NA	Solid	Total BTEX	
880-7765-17	C-633 2.5'	Total/NA	Solid	Total BTEX	
880-7765-18	C-601 2.5'	Total/NA	Solid	Total BTEX	
880-7765-19	C-605 2.5'	Total/NA	Solid	Total BTEX	
880-7765-20	C-604 2.5'	Total/NA	Solid	Total BTEX	
880-7765-21	C-597 2.5'	Total/NA	Solid	Total BTEX	
880-7765-22	C-590 2.5'	Total/NA	Solid	Total BTEX	
880-7765-23	C-583 2.5'	Total/NA	Solid	Total BTEX	
880-7765-24	C-572 2.5'	Total/NA	Solid	Total BTEX	
880-7765-25	C-567 2.5'	Total/NA	Solid	Total BTEX	
880-7765-26	C-566 2.5'	Total/NA	Solid	Total BTEX	
880-7765-27	C-565 2.5'	Total/NA	Solid	Total BTEX	
880-7765-28	C-562 2.5'	Total/NA	Solid	Total BTEX	
880-7765-29	C-571 2.5'	Total/NA	Solid	Total BTEX	
880-7765-30	C-589 2.5'	Total/NA	Solid	Total BTEX	

Analysis Batch: 11588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-31	C-579 2.5'	Total/NA	Solid	Total BTEX	
880-7765-32	C-471 2.5'	Total/NA	Solid	Total BTEX	
880-7765-33	C-561 2.5'	Total/NA	Solid	Total BTEX	
880-7765-34	C-586 2.5'	Total/NA	Solid	Total BTEX	
880-7765-35	C-550 2.5'	Total/NA	Solid	Total BTEX	
880-7765-36	C-554 2.5'	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 11189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-1	C-346 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-2	C-344 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-3	C-380 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-4	C-361 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-5	C-381 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-6	C-347 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-7	C-323 0-4.1'	Total/NA	Solid	8015B NM	11197
880-7765-8	C-326 0-4.1'	Total/NA	Solid	8015B NM	11197
880-7765-9	C-955 3'	Total/NA	Solid	8015B NM	11197
880-7765-10	C-951 3'	Total/NA	Solid	8015B NM	11197
880-7765-11	C-919 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-12	C-630 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-13	C-631 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-14	C-470 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-15	C632 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-16	C-622 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-17	C-633 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-18	C-601 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-19	C-605 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-20	C-604 2.5'	Total/NA	Solid	8015B NM	11197
MB 880-11197/1-A	Method Blank	Total/NA	Solid	8015B NM	11197
LCS 880-11197/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11197
LCSD 880-11197/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11197
880-7765-1 MS	C-346 2.5'	Total/NA	Solid	8015B NM	11197
880-7765-1 MSD	C-346 2.5'	Total/NA	Solid	8015B NM	11197

Prep Batch: 11197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-1	C-346 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-2	C-344 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-3	C-380 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-4	C-361 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-5	C-381 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-6	C-347 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-7	C-323 0-4.1'	Total/NA	Solid	8015NM Prep	
880-7765-8	C-326 0-4.1'	Total/NA	Solid	8015NM Prep	
880-7765-9	C-955 3'	Total/NA	Solid	8015NM Prep	
880-7765-10	C-951 3'	Total/NA	Solid	8015NM Prep	
880-7765-11	C-919 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-12	C-630 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-13	C-631 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-14	C-470 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-15	C632 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-16	C-622 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-17	C-633 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-18	C-601 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-19	C-605 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-20	C-604 2.5'	Total/NA	Solid	8015NM Prep	
MB 880-11197/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11197/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11197/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 11197 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-1 MS	C-346 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-1 MSD	C-346 2.5'	Total/NA	Solid	8015NM Prep	

Prep Batch: 11249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-21	C-597 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-22	C-590 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-23	C-583 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-24	C-572 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-25	C-567 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-26	C-566 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-27	C-565 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-28	C-562 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-29	C-571 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-30	C-589 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-31	C-579 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-32	C-471 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-33	C-561 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-34	C-586 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-35	C-550 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-36	C-554 2.5'	Total/NA	Solid	8015NM Prep	
MB 880-11249/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11249/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11249/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7765-21 MS	C-597 2.5'	Total/NA	Solid	8015NM Prep	
880-7765-21 MSD	C-597 2.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-21	C-597 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-22	C-590 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-23	C-583 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-24	C-572 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-25	C-567 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-26	C-566 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-27	C-565 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-28	C-562 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-29	C-571 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-30	C-589 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-31	C-579 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-32	C-471 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-33	C-561 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-34	C-586 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-35	C-550 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-36	C-554 2.5'	Total/NA	Solid	8015B NM	11249
MB 880-11249/1-A	Method Blank	Total/NA	Solid	8015B NM	11249
LCS 880-11249/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11249
LCSD 880-11249/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11249
880-7765-21 MS	C-597 2.5'	Total/NA	Solid	8015B NM	11249
880-7765-21 MSD	C-597 2.5'	Total/NA	Solid	8015B NM	11249

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 11344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-21	C-597 2.5'	Total/NA	Solid	8015 NM	
880-7765-22	C-590 2.5'	Total/NA	Solid	8015 NM	
880-7765-23	C-583 2.5'	Total/NA	Solid	8015 NM	
880-7765-24	C-572 2.5'	Total/NA	Solid	8015 NM	
880-7765-25	C-567 2.5'	Total/NA	Solid	8015 NM	
880-7765-26	C-566 2.5'	Total/NA	Solid	8015 NM	
880-7765-27	C-565 2.5'	Total/NA	Solid	8015 NM	
880-7765-28	C-562 2.5'	Total/NA	Solid	8015 NM	
880-7765-29	C-571 2.5'	Total/NA	Solid	8015 NM	
880-7765-30	C-589 2.5'	Total/NA	Solid	8015 NM	
880-7765-31	C-579 2.5'	Total/NA	Solid	8015 NM	
880-7765-32	C-471 2.5'	Total/NA	Solid	8015 NM	
880-7765-33	C-561 2.5'	Total/NA	Solid	8015 NM	
880-7765-34	C-586 2.5'	Total/NA	Solid	8015 NM	
880-7765-35	C-550 2.5'	Total/NA	Solid	8015 NM	
880-7765-36	C-554 2.5'	Total/NA	Solid	8015 NM	

Analysis Batch: 11355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-1	C-346 2.5'	Total/NA	Solid	8015 NM	
880-7765-2	C-344 2.5'	Total/NA	Solid	8015 NM	
880-7765-3	C-380 2.5'	Total/NA	Solid	8015 NM	
880-7765-4	C-361 2.5'	Total/NA	Solid	8015 NM	
880-7765-5	C-381 2.5'	Total/NA	Solid	8015 NM	
880-7765-6	C-347 2.5'	Total/NA	Solid	8015 NM	
880-7765-7	C-323 0-4.1'	Total/NA	Solid	8015 NM	
880-7765-8	C-326 0-4.1'	Total/NA	Solid	8015 NM	
880-7765-9	C-955 3'	Total/NA	Solid	8015 NM	
880-7765-10	C-951 3'	Total/NA	Solid	8015 NM	
880-7765-11	C-919 2.5'	Total/NA	Solid	8015 NM	
880-7765-12	C-630 2.5'	Total/NA	Solid	8015 NM	
880-7765-13	C-631 2.5'	Total/NA	Solid	8015 NM	
880-7765-14	C-470 2.5'	Total/NA	Solid	8015 NM	
880-7765-15	C632 2.5'	Total/NA	Solid	8015 NM	
880-7765-16	C-622 2.5'	Total/NA	Solid	8015 NM	
880-7765-17	C-633 2.5'	Total/NA	Solid	8015 NM	
880-7765-18	C-601 2.5'	Total/NA	Solid	8015 NM	
880-7765-19	C-605 2.5'	Total/NA	Solid	8015 NM	
880-7765-20	C-604 2.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 11148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-13	C-631 2.5'	Soluble	Solid	DI Leach	
880-7765-14	C-470 2.5'	Soluble	Solid	DI Leach	
880-7765-15	C632 2.5'	Soluble	Solid	DI Leach	
880-7765-16	C-622 2.5'	Soluble	Solid	DI Leach	
880-7765-17	C-633 2.5'	Soluble	Solid	DI Leach	
880-7765-18	C-601 2.5'	Soluble	Solid	DI Leach	
880-7765-19	C-605 2.5'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 11148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-20	C-604 2.5'	Soluble	Solid	DI Leach	
880-7765-21	C-597 2.5'	Soluble	Solid	DI Leach	
880-7765-22	C-590 2.5'	Soluble	Solid	DI Leach	
880-7765-23	C-583 2.5'	Soluble	Solid	DI Leach	
880-7765-24	C-572 2.5'	Soluble	Solid	DI Leach	
880-7765-25	C-567 2.5'	Soluble	Solid	DI Leach	
880-7765-26	C-566 2.5'	Soluble	Solid	DI Leach	
MB 880-11148/1-A	Method Blank	Soluble	Solid	DI Leach	
LCSD 880-11148/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7765-17 MS	C-633 2.5'	Soluble	Solid	DI Leach	
880-7765-17 MSD	C-633 2.5'	Soluble	Solid	DI Leach	

Leach Batch: 11150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-27	C-565 2.5'	Soluble	Solid	DI Leach	
880-7765-28	C-562 2.5'	Soluble	Solid	DI Leach	
880-7765-29	C-571 2.5'	Soluble	Solid	DI Leach	
880-7765-30	C-589 2.5'	Soluble	Solid	DI Leach	
880-7765-31	C-579 2.5'	Soluble	Solid	DI Leach	
880-7765-32	C-471 2.5'	Soluble	Solid	DI Leach	
880-7765-33	C-561 2.5'	Soluble	Solid	DI Leach	
880-7765-34	C-586 2.5'	Soluble	Solid	DI Leach	
880-7765-35	C-550 2.5'	Soluble	Solid	DI Leach	
880-7765-36	C-554 2.5'	Soluble	Solid	DI Leach	
MB 880-11150/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11150/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11150/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7765-27 MS	C-565 2.5'	Soluble	Solid	DI Leach	
880-7765-27 MSD	C-565 2.5'	Soluble	Solid	DI Leach	

Leach Batch: 11185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-1	C-346 2.5'	Soluble	Solid	DI Leach	
880-7765-2	C-344 2.5'	Soluble	Solid	DI Leach	
880-7765-3	C-380 2.5'	Soluble	Solid	DI Leach	
880-7765-4	C-361 2.5'	Soluble	Solid	DI Leach	
880-7765-5	C-381 2.5'	Soluble	Solid	DI Leach	
880-7765-6	C-347 2.5'	Soluble	Solid	DI Leach	
880-7765-7	C-323 0-4.1'	Soluble	Solid	DI Leach	
880-7765-8	C-326 0-4.1'	Soluble	Solid	DI Leach	
880-7765-9	C-955 3'	Soluble	Solid	DI Leach	
880-7765-10	C-951 3'	Soluble	Solid	DI Leach	
880-7765-11	C-919 2.5'	Soluble	Solid	DI Leach	
880-7765-12	C-630 2.5'	Soluble	Solid	DI Leach	
MB 880-11185/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11185/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11185/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7765-1 MS	C-346 2.5'	Soluble	Solid	DI Leach	
880-7765-1 MSD	C-346 2.5'	Soluble	Solid	DI Leach	
880-7765-11 MS	C-919 2.5'	Soluble	Solid	DI Leach	
880-7765-11 MSD	C-919 2.5'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 11216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-13	C-631 2.5'	Soluble	Solid	300.0	11148
880-7765-14	C-470 2.5'	Soluble	Solid	300.0	11148
880-7765-15	C632 2.5'	Soluble	Solid	300.0	11148
880-7765-16	C-622 2.5'	Soluble	Solid	300.0	11148
880-7765-17	C-633 2.5'	Soluble	Solid	300.0	11148
880-7765-18	C-601 2.5'	Soluble	Solid	300.0	11148
880-7765-19	C-605 2.5'	Soluble	Solid	300.0	11148
880-7765-20	C-604 2.5'	Soluble	Solid	300.0	11148
880-7765-21	C-597 2.5'	Soluble	Solid	300.0	11148
880-7765-22	C-590 2.5'	Soluble	Solid	300.0	11148
880-7765-23	C-583 2.5'	Soluble	Solid	300.0	11148
880-7765-24	C-572 2.5'	Soluble	Solid	300.0	11148
880-7765-25	C-567 2.5'	Soluble	Solid	300.0	11148
880-7765-26	C-566 2.5'	Soluble	Solid	300.0	11148
MB 880-11148/1-A	Method Blank	Soluble	Solid	300.0	11148
LCSD 880-11148/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11148
880-7765-17 MS	C-633 2.5'	Soluble	Solid	300.0	11148
880-7765-17 MSD	C-633 2.5'	Soluble	Solid	300.0	11148

Analysis Batch: 11217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-27	C-565 2.5'	Soluble	Solid	300.0	11150
880-7765-28	C-562 2.5'	Soluble	Solid	300.0	11150
880-7765-29	C-571 2.5'	Soluble	Solid	300.0	11150
880-7765-30	C-589 2.5'	Soluble	Solid	300.0	11150
880-7765-31	C-579 2.5'	Soluble	Solid	300.0	11150
880-7765-32	C-471 2.5'	Soluble	Solid	300.0	11150
880-7765-33	C-561 2.5'	Soluble	Solid	300.0	11150
880-7765-34	C-586 2.5'	Soluble	Solid	300.0	11150
880-7765-35	C-550 2.5'	Soluble	Solid	300.0	11150
880-7765-36	C-554 2.5'	Soluble	Solid	300.0	11150
MB 880-11150/1-A	Method Blank	Soluble	Solid	300.0	11150
LCS 880-11150/2-A	Lab Control Sample	Soluble	Solid	300.0	11150
LCSD 880-11150/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11150
880-7765-27 MS	C-565 2.5'	Soluble	Solid	300.0	11150
880-7765-27 MSD	C-565 2.5'	Soluble	Solid	300.0	11150

Analysis Batch: 11363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7765-1	C-346 2.5'	Soluble	Solid	300.0	11185
880-7765-2	C-344 2.5'	Soluble	Solid	300.0	11185
880-7765-3	C-380 2.5'	Soluble	Solid	300.0	11185
880-7765-4	C-361 2.5'	Soluble	Solid	300.0	11185
880-7765-5	C-381 2.5'	Soluble	Solid	300.0	11185
880-7765-6	C-347 2.5'	Soluble	Solid	300.0	11185
880-7765-7	C-323 0-4.1'	Soluble	Solid	300.0	11185
880-7765-8	C-326 0-4.1'	Soluble	Solid	300.0	11185
880-7765-9	C-955 3'	Soluble	Solid	300.0	11185
880-7765-10	C-951 3'	Soluble	Solid	300.0	11185
880-7765-11	C-919 2.5'	Soluble	Solid	300.0	11185
880-7765-12	C-630 2.5'	Soluble	Solid	300.0	11185

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 11363 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11185/1-A	Method Blank	Soluble	Solid	300.0	11185
LCS 880-11185/2-A	Lab Control Sample	Soluble	Solid	300.0	11185
LCSD 880-11185/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11185
880-7765-1 MS	C-346 2.5'	Soluble	Solid	300.0	11185
880-7765-1 MSD	C-346 2.5'	Soluble	Solid	300.0	11185
880-7765-11 MS	C-919 2.5'	Soluble	Solid	300.0	11185
880-7765-11 MSD	C-919 2.5'	Soluble	Solid	300.0	11185

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-346 2.5'

Lab Sample ID: 880-7765-1

Date Collected: 10/27/21 08:00

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 17:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 11:54	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11185	11/01/21 18:23	CA	XEN MID
Soluble	Analysis	300.0		1			11363	11/07/21 18:19	CH	XEN MID

Client Sample ID: C-344 2.5'

Lab Sample ID: 880-7765-2

Date Collected: 10/27/21 08:01

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 17:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 12:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11185	11/01/21 18:23	CA	XEN MID
Soluble	Analysis	300.0		1			11363	11/07/21 18:41	CH	XEN MID

Client Sample ID: C-380 2.5'

Lab Sample ID: 880-7765-3

Date Collected: 10/27/21 08:03

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 17:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 13:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11185	11/01/21 18:23	CA	XEN MID
Soluble	Analysis	300.0		1			11363	11/07/21 18:48	CH	XEN MID

Client Sample ID: C-361 2.5'

Lab Sample ID: 880-7765-4

Date Collected: 10/27/21 08:04

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 18:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-361 2.5'

Date Collected: 10/27/21 08:04

Date Received: 10/29/21 15:00

Lab Sample ID: 880-7765-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 13:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11185	11/01/21 18:23	CA	XEN MID
Soluble	Analysis	300.0		1			11363	11/07/21 18:55	CH	XEN MID

Client Sample ID: C-381 2.5'

Date Collected: 10/27/21 08:05

Date Received: 10/29/21 15:00

Lab Sample ID: 880-7765-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 18:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 13:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11185	11/01/21 18:23	CA	XEN MID
Soluble	Analysis	300.0		1			11363	11/07/21 19:03	CH	XEN MID

Client Sample ID: C-347 2.5'

Date Collected: 10/27/21 08:06

Date Received: 10/29/21 15:00

Lab Sample ID: 880-7765-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 19:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 14:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11185	11/01/21 18:23	CA	XEN MID
Soluble	Analysis	300.0		1			11363	11/07/21 19:25	CH	XEN MID

Client Sample ID: C-323 0-4.1'

Date Collected: 10/27/21 08:30

Date Received: 10/29/21 15:00

Lab Sample ID: 880-7765-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 19:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 14:39	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-323 0-4.1'

Lab Sample ID: 880-7765-7

Date Collected: 10/27/21 08:30

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	11185	11/01/21 18:23	CA	XEN MID
Soluble	Analysis	300.0		1			11363	11/07/21 19:33	CH	XEN MID

Client Sample ID: C-326 0-4.1'

Lab Sample ID: 880-7765-8

Date Collected: 10/27/21 08:31

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 19:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11185	11/01/21 18:23	CA	XEN MID
Soluble	Analysis	300.0		1			11363	11/07/21 19:40	CH	XEN MID

Client Sample ID: C-955 3'

Lab Sample ID: 880-7765-9

Date Collected: 10/27/21 09:00

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 20:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 15:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11185	11/01/21 18:23	CA	XEN MID
Soluble	Analysis	300.0		1			11363	11/07/21 19:47	CH	XEN MID

Client Sample ID: C-951 3'

Lab Sample ID: 880-7765-10

Date Collected: 10/27/21 09:01

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 20:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 15:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11185	11/01/21 18:23	CA	XEN MID
Soluble	Analysis	300.0		1			11363	11/07/21 19:55	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-919 2.5'

Lab Sample ID: 880-7765-11

Date Collected: 10/27/21 09:05

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 21:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 16:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11185	11/01/21 18:23	CA	XEN MID
Soluble	Analysis	300.0		1			11363	11/07/21 20:02	CH	XEN MID

Client Sample ID: C-630 2.5'

Lab Sample ID: 880-7765-12

Date Collected: 10/27/21 12:30

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 22:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 16:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11185	11/01/21 18:23	CA	XEN MID
Soluble	Analysis	300.0		1			11363	11/07/21 20:24	CH	XEN MID

Client Sample ID: C-631 2.5'

Lab Sample ID: 880-7765-13

Date Collected: 10/27/21 12:31

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 22:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 17:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 04:35	CH	XEN MID

Client Sample ID: C-470 2.5'

Lab Sample ID: 880-7765-14

Date Collected: 10/27/21 12:32

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 22:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-470 2.5'

Lab Sample ID: 880-7765-14

Date Collected: 10/27/21 12:32

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 17:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 04:42	CH	XEN MID

Client Sample ID: C632 2.5'

Lab Sample ID: 880-7765-15

Date Collected: 10/27/21 12:33

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 23:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 04:50	CH	XEN MID

Client Sample ID: C-622 2.5'

Lab Sample ID: 880-7765-16

Date Collected: 10/27/21 12:38

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 23:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 18:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 04:57	CH	XEN MID

Client Sample ID: C-633 2.5'

Lab Sample ID: 880-7765-17

Date Collected: 10/27/21 12:40

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/01/21 23:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 18:26	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-633 2.5'

Lab Sample ID: 880-7765-17

Date Collected: 10/27/21 12:40

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 05:04	CH	XEN MID

Client Sample ID: C-601 2.5'

Lab Sample ID: 880-7765-18

Date Collected: 10/27/21 12:42

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/02/21 00:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 18:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 05:25	CH	XEN MID

Client Sample ID: C-605 2.5'

Lab Sample ID: 880-7765-19

Date Collected: 10/27/21 12:43

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/02/21 00:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 19:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 05:33	CH	XEN MID

Client Sample ID: C-604 2.5'

Lab Sample ID: 880-7765-20

Date Collected: 10/27/21 12:44

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11074	11/01/21 11:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11119	11/02/21 00:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11355	11/03/21 10:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11197	11/02/21 08:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11189	11/02/21 19:26	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 05:54	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-597 2.5'

Lab Sample ID: 880-7765-21

Date Collected: 10/27/21 12:46

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 03:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 21:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 06:01	CH	XEN MID

Client Sample ID: C-590 2.5'

Lab Sample ID: 880-7765-22

Date Collected: 10/27/21 12:53

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 04:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 22:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 06:08	CH	XEN MID

Client Sample ID: C-583 2.5'

Lab Sample ID: 880-7765-23

Date Collected: 10/27/21 12:55

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 04:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 22:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 06:16	CH	XEN MID

Client Sample ID: C-572 2.5'

Lab Sample ID: 880-7765-24

Date Collected: 10/27/21 12:56

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 05:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-572 2.5'

Lab Sample ID: 880-7765-24

Date Collected: 10/27/21 12:56

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 23:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 06:23	CH	XEN MID

Client Sample ID: C-567 2.5'

Lab Sample ID: 880-7765-25

Date Collected: 10/27/21 12:57

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 05:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 23:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 06:30	CH	XEN MID

Client Sample ID: C-566 2.5'

Lab Sample ID: 880-7765-26

Date Collected: 10/27/21 12:58

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 06:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 23:41	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11148	11/01/21 13:41	CA	XEN MID
Soluble	Analysis	300.0		1			11216	11/04/21 06:37	CH	XEN MID

Client Sample ID: C-565 2.5'

Lab Sample ID: 880-7765-27

Date Collected: 10/27/21 12:59

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 06:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 00:02	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-565 2.5'

Lab Sample ID: 880-7765-27

Date Collected: 10/27/21 12:59

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	11150	11/01/21 13:45	CA	XEN MID
Soluble	Analysis	300.0		1			11217	11/08/21 00:02	CH	XEN MID

Client Sample ID: C-562 2.5'

Lab Sample ID: 880-7765-28

Date Collected: 10/27/21 13:00

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 06:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 00:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11150	11/01/21 13:45	CA	XEN MID
Soluble	Analysis	300.0		1			11217	11/08/21 00:25	CH	XEN MID

Client Sample ID: C-571 2.5'

Lab Sample ID: 880-7765-29

Date Collected: 10/27/21 13:01

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 07:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 00:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11150	11/01/21 13:45	CA	XEN MID
Soluble	Analysis	300.0		1			11217	11/08/21 00:32	CH	XEN MID

Client Sample ID: C-589 2.5'

Lab Sample ID: 880-7765-30

Date Collected: 10/27/21 13:02

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 07:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 01:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11150	11/01/21 13:45	CA	XEN MID
Soluble	Analysis	300.0		1			11217	11/08/21 00:40	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-579 2.5'

Lab Sample ID: 880-7765-31

Date Collected: 10/27/21 13:03

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 10:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11588	11/05/21 13:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 01:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11150	11/01/21 13:45	CA	XEN MID
Soluble	Analysis	300.0		1			11217	11/08/21 00:48	CH	XEN MID

Client Sample ID: C-471 2.5'

Lab Sample ID: 880-7765-32

Date Collected: 10/27/21 13:05

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 11:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11588	11/05/21 13:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 02:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11150	11/01/21 13:45	CA	XEN MID
Soluble	Analysis	300.0		1			11217	11/08/21 01:11	CH	XEN MID

Client Sample ID: C-561 2.5'

Lab Sample ID: 880-7765-33

Date Collected: 10/27/21 13:06

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 11:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11588	11/05/21 13:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 02:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11150	11/01/21 13:45	CA	XEN MID
Soluble	Analysis	300.0		1			11217	11/08/21 01:18	CH	XEN MID

Client Sample ID: C-586 2.5'

Lab Sample ID: 880-7765-34

Date Collected: 10/27/21 13:07

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 11:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11588	11/05/21 13:34	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Client Sample ID: C-586 2.5'

Lab Sample ID: 880-7765-34

Date Collected: 10/27/21 13:07

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 02:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11150	11/01/21 13:45	CA	XEN MID
Soluble	Analysis	300.0		1			11217	11/08/21 01:26	CH	XEN MID

Client Sample ID: C-550 2.5'

Lab Sample ID: 880-7765-35

Date Collected: 10/27/21 13:08

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 12:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11588	11/05/21 13:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 03:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11150	11/01/21 13:45	CA	XEN MID
Soluble	Analysis	300.0		1			11217	11/08/21 01:34	CH	XEN MID

Client Sample ID: C-554 2.5'

Lab Sample ID: 880-7765-36

Date Collected: 10/27/21 13:09

Matrix: Solid

Date Received: 10/29/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11123	11/01/21 12:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/02/21 13:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11588	11/05/21 13:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 12:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 03:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11150	11/01/21 13:45	CA	XEN MID
Soluble	Analysis	300.0		1			11217	11/08/21 01:41	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-7765-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-7765-1	C-346 2.5'	Solid	10/27/21 08:00	10/29/21 15:00
880-7765-2	C-344 2.5'	Solid	10/27/21 08:01	10/29/21 15:00
880-7765-3	C-380 2.5'	Solid	10/27/21 08:03	10/29/21 15:00
880-7765-4	C-361 2.5'	Solid	10/27/21 08:04	10/29/21 15:00
880-7765-5	C-381 2.5'	Solid	10/27/21 08:05	10/29/21 15:00
880-7765-6	C-347 2.5'	Solid	10/27/21 08:06	10/29/21 15:00
880-7765-7	C-323 0-4.1'	Solid	10/27/21 08:30	10/29/21 15:00
880-7765-8	C-326 0-4.1'	Solid	10/27/21 08:31	10/29/21 15:00
880-7765-9	C-955 3'	Solid	10/27/21 09:00	10/29/21 15:00
880-7765-10	C-951 3'	Solid	10/27/21 09:01	10/29/21 15:00
880-7765-11	C-919 2.5'	Solid	10/27/21 09:05	10/29/21 15:00
880-7765-12	C-630 2.5'	Solid	10/27/21 12:30	10/29/21 15:00
880-7765-13	C-631 2.5'	Solid	10/27/21 12:31	10/29/21 15:00
880-7765-14	C-470 2.5'	Solid	10/27/21 12:32	10/29/21 15:00
880-7765-15	C632 2.5'	Solid	10/27/21 12:33	10/29/21 15:00
880-7765-16	C-622 2.5'	Solid	10/27/21 12:38	10/29/21 15:00
880-7765-17	C-633 2.5'	Solid	10/27/21 12:40	10/29/21 15:00
880-7765-18	C-601 2.5'	Solid	10/27/21 12:42	10/29/21 15:00
880-7765-19	C-605 2.5'	Solid	10/27/21 12:43	10/29/21 15:00
880-7765-20	C-604 2.5'	Solid	10/27/21 12:44	10/29/21 15:00
880-7765-21	C-597 2.5'	Solid	10/27/21 12:46	10/29/21 15:00
880-7765-22	C-590 2.5'	Solid	10/27/21 12:53	10/29/21 15:00
880-7765-23	C-583 2.5'	Solid	10/27/21 12:55	10/29/21 15:00
880-7765-24	C-572 2.5'	Solid	10/27/21 12:56	10/29/21 15:00
880-7765-25	C-567 2.5'	Solid	10/27/21 12:57	10/29/21 15:00
880-7765-26	C-566 2.5'	Solid	10/27/21 12:58	10/29/21 15:00
880-7765-27	C-565 2.5'	Solid	10/27/21 12:59	10/29/21 15:00
880-7765-28	C-562 2.5'	Solid	10/27/21 13:00	10/29/21 15:00
880-7765-29	C-571 2.5'	Solid	10/27/21 13:01	10/29/21 15:00
880-7765-30	C-589 2.5'	Solid	10/27/21 13:02	10/29/21 15:00
880-7765-31	C-579 2.5'	Solid	10/27/21 13:03	10/29/21 15:00
880-7765-32	C-471 2.5'	Solid	10/27/21 13:05	10/29/21 15:00
880-7765-33	C-561 2.5'	Solid	10/27/21 13:06	10/29/21 15:00
880-7765-34	C-586 2.5'	Solid	10/27/21 13:07	10/29/21 15:00
880-7765-35	C-550 2.5'	Solid	10/27/21 13:08	10/29/21 15:00
880-7765-36	C-554 2.5'	Solid	10/27/21 13:09	10/29/21 15:00

2/2/2022 (Rev. 2)

Marson & Associates, Inc.

Environmental Consultants

507 N Marenfeld Ste 202
Midland TX 79701
432-687 0901

DATE

10-29-21

PAGE

2

OF

3

PO#

LAB WORK ORDER#

PROJECT LOCATION OR NAME

Palma Ase

LAI PROJECT #

21-0105-02

COLLECTOR

TP

Data Reported to

TRRP report?

☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE

Time zone/State

MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED
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C-1246		10-27-21	1238	S	1				X	
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C-1248			1240						X	
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C-1300			1242						X	
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C-1301			1243						X	
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C-1302			1244						X	
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C-1304			1246						X	
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C-1311			1253						X	
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C-1313			1255						X	
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C-1314			1256						X	
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C-1315			1257						X	
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C-1316			1258						X	
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C-1317			1259						X	
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C-1318			1300						X	
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C-1319			1301						X	
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C-1326			1302						X	
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TOTAL

V5

RELINQUISHED BY (Signature)

10/29/21

DATE/TIME

RECEIVED BY (Signature)

10/29/21

RECEIVED BY (Signature)

1500

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

LABORATORY

TURN AROUND TIME

NORMAL

1 DAY

2 DAY

OTHER

LABORATORY USE ONLY:

RECEIVING TEMP

101.7

THERM#

1R8

CUSTODY SEALS -

BROKEN

INTACT

NOT USED

CARRIER BILL #

HAND DELIVERED

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Varson & Associates, Inc.
Environmental Consultants

507 N Warrenfield Ste 202
Midland TX 79701
432-687-0901

Data Reported to

DATE 10-29-21 PAGE 3 OF 3
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME Palmco A/C
LAI PROJECT # 21-0105-02 COLLECTOR TP

No. 2164
CHAIN-OF-CUSTODY

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State
MST/NT

Field
Sample I D

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESSERVED

PRESERVATION

ANALYSES

BTEX ☐ MTBE ☐

TRPH 418 T ☐ TPH 1005 ☐ TPH 1006 ☐

GASOLINE MOD 8015 ☐

DIESEL - MOD 8015 ☐

OIL - MOD 8015 ☐

VOC 8260 ☐

SVOC 8270 ☐

8081 PESTICIDES ☐

8082 PESTICIDES ☐

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Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-7765-1

SDG Number: 21-0105-02

Login Number: 7765**List Number: 1****Creator: Teel, Brianna****List Source: Eurofins Midland**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1540-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST
Revision: 2

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
2/2/2022 10:49:20 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1540-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Job ID: 890-1540-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1540-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 11/17/2021. The report (revision 2) is being revised to change sample ID C-881 to C-880 per Daniel St. Germain (email).

Report revision history

Revision 1 - 12/13/2021 - Reason - The report was revised to change sample IDs per Daniel St. Germain (email)..

Receipt

The samples were received on 11/4/2021 3:02 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 6.6° C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-746 (890-1540-1), C-741 (890-1540-3), C-726 (890-1540-7), C-725 (890-1540-8), C-744 (890-1540-9), C-696 (890-1540-10), C-679 (890-1540-11), C-670 (890-1540-13) and (MB 880-11666/5-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-746

Lab Sample ID: 890-1540-1

Date Collected: 11/02/21 14:01

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 18:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 18:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 18:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/08/21 09:53	11/08/21 18:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 18:05	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/08/21 09:53	11/08/21 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	11/08/21 09:53	11/08/21 18:05	1
1,4-Difluorobenzene (Surr)	113		70 - 130	11/08/21 09:53	11/08/21 18:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 12:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 12:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	11/08/21 09:16	11/08/21 12:51	1
o-Terphenyl (Surr)	99		70 - 130	11/08/21 09:16	11/08/21 12:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	617	F1	5.05	mg/Kg			11/16/21 11:02	1

Client Sample ID: C-743

Lab Sample ID: 890-1540-2

Date Collected: 11/02/21 14:03

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/08/21 09:53	11/08/21 18:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/08/21 09:53	11/08/21 18:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/08/21 09:53	11/08/21 18:26	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/08/21 09:53	11/08/21 18:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/08/21 09:53	11/08/21 18:26	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/08/21 09:53	11/08/21 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	11/08/21 09:53	11/08/21 18:26	1
1,4-Difluorobenzene (Surr)	107		70 - 130	11/08/21 09:53	11/08/21 18:26	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-743

Lab Sample ID: 890-1540-2

Date Collected: 11/02/21 14:03

Matrix: Solid

Date Received: 11/04/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 13:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 13:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 13:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			11/08/21 09:16	11/08/21 13:51	1
o-Terphenyl (Surr)	85		70 - 130			11/08/21 09:16	11/08/21 13:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	524		4.98	mg/Kg			11/16/21 11:24	1

Client Sample ID: C-741

Lab Sample ID: 890-1540-3

Date Collected: 11/02/21 14:04

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/08/21 09:53	11/08/21 18:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/08/21 09:53	11/08/21 18:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/08/21 09:53	11/08/21 18:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/08/21 09:53	11/08/21 18:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/08/21 09:53	11/08/21 18:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/08/21 09:53	11/08/21 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			11/08/21 09:53	11/08/21 18:46	1
1,4-Difluorobenzene (Surr)	106		70 - 130			11/08/21 09:53	11/08/21 18:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 14:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 14:12	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-741

Lab Sample ID: 890-1540-3

Date Collected: 11/02/21 14:04

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	70		70 - 130			11/08/21 09:16	11/08/21 14:12	1
o-Terphenyl (Surr)	80		70 - 130			11/08/21 09:16	11/08/21 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	469		5.00	mg/Kg			11/16/21 11:32	1

Client Sample ID: C-739

Lab Sample ID: 890-1540-4

Date Collected: 11/02/21 14:05

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/08/21 09:53	11/08/21 19:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/08/21 09:53	11/08/21 19:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/08/21 09:53	11/08/21 19:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/08/21 09:53	11/08/21 19:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/08/21 09:53	11/08/21 19:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/08/21 09:53	11/08/21 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			11/08/21 09:53	11/08/21 19:07	1
1,4-Difluorobenzene (Surr)	79		70 - 130			11/08/21 09:53	11/08/21 19:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 14:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 14:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			11/08/21 09:16	11/08/21 14:32	1
o-Terphenyl (Surr)	100		70 - 130			11/08/21 09:16	11/08/21 14:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	344		5.00	mg/Kg			11/16/21 11:54	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-734

Lab Sample ID: 890-1540-5

Date Collected: 11/02/21 14:05

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/08/21 09:53	11/08/21 19:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/08/21 09:53	11/08/21 19:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/08/21 09:53	11/08/21 19:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/08/21 09:53	11/08/21 19:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/08/21 09:53	11/08/21 19:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/08/21 09:53	11/08/21 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	11/08/21 09:53	11/08/21 19:27	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/08/21 09:53	11/08/21 19:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/08/21 09:16	11/08/21 14:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/08/21 09:16	11/08/21 14:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/08/21 09:16	11/08/21 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	68	S1-	70 - 130	11/08/21 09:16	11/08/21 14:52	1
o-Terphenyl (Surr)	75		70 - 130	11/08/21 09:16	11/08/21 14:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	497		4.95	mg/Kg			11/16/21 12:01	1

Client Sample ID: C-730

Lab Sample ID: 890-1540-6

Date Collected: 11/02/21 14:07

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 19:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 19:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 19:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/08/21 09:53	11/08/21 19:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 19:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/08/21 09:53	11/08/21 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	11/08/21 09:53	11/08/21 19:47	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/08/21 09:53	11/08/21 19:47	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-730

Lab Sample ID: 890-1540-6

Date Collected: 11/02/21 14:07

Matrix: Solid

Date Received: 11/04/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 15:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 15:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	65	S1-	70 - 130			11/08/21 09:16	11/08/21 15:13	1
o-Terphenyl (Surr)	72		70 - 130			11/08/21 09:16	11/08/21 15:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		5.04	mg/Kg			11/16/21 12:09	1

Client Sample ID: C-726

Lab Sample ID: 890-1540-7

Date Collected: 11/02/21 14:08

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 20:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 20:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 20:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/08/21 09:53	11/08/21 20:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 20:08	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/08/21 09:53	11/08/21 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			11/08/21 09:53	11/08/21 20:08	1
1,4-Difluorobenzene (Surr)	106		70 - 130			11/08/21 09:53	11/08/21 20:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/08/21 09:16	11/08/21 15:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/08/21 09:16	11/08/21 15:33	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-726

Lab Sample ID: 890-1540-7

Date Collected: 11/02/21 14:08

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/08/21 09:16	11/08/21 15:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130			11/08/21 09:16	11/08/21 15:33	1
o-Terphenyl (Surr)	79		70 - 130			11/08/21 09:16	11/08/21 15:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		4.97	mg/Kg			11/16/21 12:16	1

Client Sample ID: C-725

Lab Sample ID: 890-1540-8

Date Collected: 11/02/21 14:09

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 20:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 20:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 20:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/08/21 09:53	11/08/21 20:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 20:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/08/21 09:53	11/08/21 20:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			11/08/21 09:53	11/08/21 20:28	1
1,4-Difluorobenzene (Surr)	105		70 - 130			11/08/21 09:53	11/08/21 20:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 15:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 15:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 15:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			11/08/21 09:16	11/08/21 15:53	1
o-Terphenyl (Surr)	89		70 - 130			11/08/21 09:16	11/08/21 15:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470		4.98	mg/Kg			11/16/21 12:23	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-744

Lab Sample ID: 890-1540-9

Date Collected: 11/02/21 14:02

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/08/21 09:53	11/08/21 20:49	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/08/21 09:53	11/08/21 20:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/08/21 09:53	11/08/21 20:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/08/21 09:53	11/08/21 20:49	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/08/21 09:53	11/08/21 20:49	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/08/21 09:53	11/08/21 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	11/08/21 09:53	11/08/21 20:49	1
1,4-Difluorobenzene (Surr)	79		70 - 130	11/08/21 09:53	11/08/21 20:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 16:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 16:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	11/08/21 09:16	11/08/21 16:13	1
o-Terphenyl (Surr)	94		70 - 130	11/08/21 09:16	11/08/21 16:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	396		4.95	mg/Kg			11/16/21 12:31	1

Client Sample ID: C-696

Lab Sample ID: 890-1540-10

Date Collected: 11/03/21 09:14

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/08/21 09:53	11/08/21 21:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/08/21 09:53	11/08/21 21:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/08/21 09:53	11/08/21 21:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/08/21 09:53	11/08/21 21:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/08/21 09:53	11/08/21 21:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/08/21 09:53	11/08/21 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	11/08/21 09:53	11/08/21 21:09	1
1,4-Difluorobenzene (Surr)	111		70 - 130	11/08/21 09:53	11/08/21 21:09	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-696

Lab Sample ID: 890-1540-10

Date Collected: 11/03/21 09:14

Matrix: Solid

Date Received: 11/04/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 16:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 16:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 16:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			11/08/21 09:16	11/08/21 16:34	1
o-Terphenyl (Surr)	96		70 - 130			11/08/21 09:16	11/08/21 16:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		5.00	mg/Kg			11/16/21 12:38	1

Client Sample ID: C-679

Lab Sample ID: 890-1540-11

Date Collected: 11/03/21 09:15

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/08/21 17:00	11/09/21 00:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/08/21 17:00	11/09/21 00:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/08/21 17:00	11/09/21 00:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/08/21 17:00	11/09/21 00:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/08/21 17:00	11/09/21 00:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/08/21 17:00	11/09/21 00:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			11/08/21 17:00	11/09/21 00:31	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130			11/08/21 17:00	11/09/21 00:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 17:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 17:17	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-679

Lab Sample ID: 890-1540-11

Date Collected: 11/03/21 09:15

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 17:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			11/08/21 09:16	11/08/21 17:17	1
o-Terphenyl (Surr)	121		70 - 130			11/08/21 09:16	11/08/21 17:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	276		5.05	mg/Kg			11/10/21 00:53	1

Client Sample ID: C-671

Lab Sample ID: 890-1540-12

Date Collected: 11/03/21 09:17

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/08/21 17:00	11/09/21 00:52	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/08/21 17:00	11/09/21 00:52	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/08/21 17:00	11/09/21 00:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		11/08/21 17:00	11/09/21 00:52	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/08/21 17:00	11/09/21 00:52	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		11/08/21 17:00	11/09/21 00:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			11/08/21 17:00	11/09/21 00:52	1
1,4-Difluorobenzene (Surr)	96		70 - 130			11/08/21 17:00	11/09/21 00:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 17:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 17:37	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/08/21 09:16	11/08/21 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			11/08/21 09:16	11/08/21 17:37	1
o-Terphenyl (Surr)	90		70 - 130			11/08/21 09:16	11/08/21 17:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	531		5.01	mg/Kg			11/10/21 01:01	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-670

Lab Sample ID: 890-1540-13

Date Collected: 11/03/21 09:18

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/08/21 17:00	11/09/21 01:12	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/08/21 17:00	11/09/21 01:12	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/08/21 17:00	11/09/21 01:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/08/21 17:00	11/09/21 01:12	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/08/21 17:00	11/09/21 01:12	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/08/21 17:00	11/09/21 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130	11/08/21 17:00	11/09/21 01:12	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/08/21 17:00	11/09/21 01:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 15:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 15:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	11/08/21 08:50	11/08/21 15:53	1
o-Terphenyl (Surr)	109		70 - 130	11/08/21 08:50	11/08/21 15:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224		4.97	mg/Kg			11/10/21 01:24	1

Client Sample ID: C-880

Lab Sample ID: 890-1540-14

Date Collected: 11/04/21 09:32

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/10/21 08:45	11/10/21 14:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/21 08:45	11/10/21 14:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/21 08:45	11/10/21 14:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/10/21 08:45	11/10/21 14:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/21 08:45	11/10/21 14:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/21 08:45	11/10/21 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	11/10/21 08:45	11/10/21 14:55	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/10/21 08:45	11/10/21 14:55	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-880

Lab Sample ID: 890-1540-14

Date Collected: 11/04/21 09:32

Matrix: Solid

Date Received: 11/04/21 15:02

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 16:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 16:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			11/08/21 08:50	11/08/21 16:13	1
o-Terphenyl (Surr)	105		70 - 130			11/08/21 08:50	11/08/21 16:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	477		4.95	mg/Kg			11/10/21 01:32	1

Client Sample ID: C-903

Lab Sample ID: 890-1540-15

Date Collected: 11/04/21 09:35

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/10/21 08:45	11/10/21 15:16	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/10/21 08:45	11/10/21 15:16	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/10/21 08:45	11/10/21 15:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/10/21 08:45	11/10/21 15:16	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/10/21 08:45	11/10/21 15:16	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/10/21 08:45	11/10/21 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130			11/10/21 08:45	11/10/21 15:16	1
1,4-Difluorobenzene (Surr)	107		70 - 130			11/10/21 08:45	11/10/21 15:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 16:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 16:34	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-903

Lab Sample ID: 890-1540-15

Date Collected: 11/04/21 09:35

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 16:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			11/08/21 08:50	11/08/21 16:34	1
o-Terphenyl (Surr)	101		70 - 130			11/08/21 08:50	11/08/21 16:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	338		4.98	mg/Kg			11/10/21 01:39	1

Client Sample ID: C-895

Lab Sample ID: 890-1540-16

Date Collected: 11/04/21 09:37

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/10/21 08:45	11/10/21 15:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/21 08:45	11/10/21 15:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/21 08:45	11/10/21 15:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/10/21 08:45	11/10/21 15:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/21 08:45	11/10/21 15:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/10/21 08:45	11/10/21 15:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			11/10/21 08:45	11/10/21 15:36	1
1,4-Difluorobenzene (Surr)	100		70 - 130			11/10/21 08:45	11/10/21 15:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 17:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 17:17	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 17:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			11/08/21 08:50	11/08/21 17:17	1
o-Terphenyl (Surr)	105		70 - 130			11/08/21 08:50	11/08/21 17:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	409		4.95	mg/Kg			11/10/21 01:47	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-896

Lab Sample ID: 890-1540-17

Date Collected: 11/04/21 09:38

Matrix: Solid

Date Received: 11/04/21 15:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/10/21 08:45	11/10/21 15:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/21 08:45	11/10/21 15:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/21 08:45	11/10/21 15:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/10/21 08:45	11/10/21 15:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/21 08:45	11/10/21 15:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/10/21 08:45	11/10/21 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	11/10/21 08:45	11/10/21 15:57	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/10/21 08:45	11/10/21 15:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/11/21 14:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 17:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 17:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/08/21 08:50	11/08/21 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	11/08/21 08:50	11/08/21 17:37	1
o-Terphenyl (Surr)	103		70 - 130	11/08/21 08:50	11/08/21 17:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	651		5.04	mg/Kg			11/10/21 01:55	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1540-1	C-746	136 S1+	113
890-1540-2	C-743	129	107
890-1540-3	C-741	131 S1+	106
890-1540-4	C-739	122	79
890-1540-5	C-734	109	104
890-1540-6	C-730	125	104
890-1540-7	C-726	137 S1+	106
890-1540-8	C-725	133 S1+	105
890-1540-9	C-744	141 S1+	79
890-1540-10	C-696	151 S1+	111
890-1540-11	C-679	112	66 S1-
890-1540-11 MS	C-679	116	108
890-1540-11 MSD	C-679	119	106
890-1540-12	C-671	123	96
890-1540-13	C-670	160 S1+	100
890-1540-14	C-880	118	100
890-1540-14 MS	C-880	111	96
890-1540-14 MSD	C-880	110	96
890-1540-15	C-903	150 S1+	107
890-1540-16	C-895	116	100
890-1540-17	C-896	117	93
LCS 880-11663/1-A	Lab Control Sample	101	97
LCS 880-11666/1-A	Lab Control Sample	120	109
LCS 880-11822/1-A	Lab Control Sample	111	106
LCSD 880-11663/2-A	Lab Control Sample Dup	99	95
LCSD 880-11666/2-A	Lab Control Sample Dup	114	108
LCSD 880-11822/2-A	Lab Control Sample Dup	106	95
MB 880-11663/5-A	Method Blank	128	113
MB 880-11666/5-A	Method Blank	156 S1+	110
MB 880-11822/5-A	Method Blank	109	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-8014-A-8-B MS	Matrix Spike	104	104
880-8014-A-8-C MSD	Matrix Spike Duplicate	114	117
890-1540-1	C-746	87	99
890-1540-1 MS	C-746	95	92
890-1540-1 MSD	C-746	94	76
890-1540-2	C-743	75	85
890-1540-3	C-741	70	80
890-1540-4	C-739	88	100
890-1540-5	C-734	68 S1-	75

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1540-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1540-6	C-730	65 S1-	72
890-1540-7	C-726	71	79
890-1540-8	C-725	79	89
890-1540-9	C-744	84	94
890-1540-10	C-696	86	96
890-1540-11	C-679	103	121
890-1540-12	C-671	80	90
890-1540-13	C-670	95	109
890-1540-14	C-880	93	105
890-1540-15	C-903	87	101
890-1540-16	C-895	91	105
890-1540-17	C-896	88	103
LCS 880-11647/2-A	Lab Control Sample	80	78
LCS 880-11648/2-A	Lab Control Sample	101	95
LCSD 880-11647/3-A	Lab Control Sample Dup	72	73
LCSD 880-11648/3-A	Lab Control Sample Dup	127	103
MB 880-11647/1-A	Method Blank	108	128
MB 880-11648/1-A	Method Blank	124	146 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11663/5-A

Matrix: Solid

Analysis Batch: 11665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11663

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 13:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 13:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 13:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/08/21 09:53	11/08/21 13:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/08/21 09:53	11/08/21 13:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/08/21 09:53	11/08/21 13:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	11/08/21 09:53	11/08/21 13:18	1
1,4-Difluorobenzene (Surr)	113		70 - 130	11/08/21 09:53	11/08/21 13:18	1

Lab Sample ID: LCS 880-11663/1-A

Matrix: Solid

Analysis Batch: 11665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07648		mg/Kg		76	70 - 130
Toluene	0.100	0.07987		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.07710		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1603		mg/Kg		80	70 - 130
o-Xylene	0.100	0.08099		mg/Kg		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-11663/2-A

Matrix: Solid

Analysis Batch: 11665

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11663

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07362		mg/Kg		74	70 - 130	4	35
Toluene	0.100	0.07560		mg/Kg		76	70 - 130	5	35
Ethylbenzene	0.100	0.07388		mg/Kg		74	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1566		mg/Kg		78	70 - 130	2	35
o-Xylene	0.100	0.07733		mg/Kg		77	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-11666/5-A

Matrix: Solid

Analysis Batch: 11665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11666

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/08/21 17:00	11/09/21 00:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/08/21 17:00	11/09/21 00:10	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-11666/5-A

Matrix: Solid

Analysis Batch: 11665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11666

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/08/21 17:00	11/09/21 00:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/08/21 17:00	11/09/21 00:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/08/21 17:00	11/09/21 00:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/08/21 17:00	11/09/21 00:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	11/08/21 17:00	11/09/21 00:10	1
1,4-Difluorobenzene (Surr)	110		70 - 130	11/08/21 17:00	11/09/21 00:10	1

Lab Sample ID: LCS 880-11666/1-A

Matrix: Solid

Analysis Batch: 11665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09343		mg/Kg		93	70 - 130
Toluene	0.100	0.08851		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09602		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.2046		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-11666/2-A

Matrix: Solid

Analysis Batch: 11665

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11666

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09465		mg/Kg		95	70 - 130	1	35
Toluene	0.100	0.08923		mg/Kg		89	70 - 130	1	35
Ethylbenzene	0.100	0.09396		mg/Kg		94	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1992		mg/Kg		100	70 - 130	3	35
o-Xylene	0.100	0.1012		mg/Kg		101	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-1540-11 MS

Matrix: Solid

Analysis Batch: 11665

Client Sample ID: C-679

Prep Type: Total/NA

Prep Batch: 11666

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.100	0.09114		mg/Kg		91	70 - 130
Toluene	<0.00200	U	0.100	0.08670		mg/Kg		86	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09033		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1949		mg/Kg		97	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1540-11 MS

Matrix: Solid

Analysis Batch: 11665

Client Sample ID: C-679

Prep Type: Total/NA

Prep Batch: 11666

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	<0.00200	U	0.100	0.09542		mg/Kg		95	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-1540-11 MSD

Matrix: Solid

Analysis Batch: 11665

Client Sample ID: C-679

Prep Type: Total/NA

Prep Batch: 11666

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.08285		mg/Kg		83	70 - 130	10	35
Toluene	<0.00200	U	0.100	0.07956		mg/Kg		80	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.100	0.08416		mg/Kg		84	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1834		mg/Kg		92	70 - 130	6	35
o-Xylene	<0.00200	U	0.100	0.09223		mg/Kg		92	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-11822/5-A

Matrix: Solid

Analysis Batch: 11884

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11822

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/10/21 08:45	11/10/21 14:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/21 08:45	11/10/21 14:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/21 08:45	11/10/21 14:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/10/21 08:45	11/10/21 14:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/21 08:45	11/10/21 14:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/10/21 08:45	11/10/21 14:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	11/10/21 08:45	11/10/21 14:34	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/10/21 08:45	11/10/21 14:34	1

Lab Sample ID: LCS 880-11822/1-A

Matrix: Solid

Analysis Batch: 11884

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08476		mg/Kg		85	70 - 130
Toluene	0.100	0.07637		mg/Kg		76	70 - 130
Ethylbenzene	0.100	0.07943		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1662		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08584		mg/Kg		86	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-11822/1-A

Matrix: Solid

Analysis Batch: 11884

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11822

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-11822/2-A

Matrix: Solid

Analysis Batch: 11884

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11822

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08967		mg/Kg		90	70 - 130	6	35
Toluene	0.100	0.08292		mg/Kg		83	70 - 130	8	35
Ethylbenzene	0.100	0.08572		mg/Kg		86	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1781		mg/Kg		89	70 - 130	7	35
o-Xylene	0.100	0.08929		mg/Kg		89	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-1540-14 MS

Matrix: Solid

Analysis Batch: 11884

Client Sample ID: C-880

Prep Type: Total/NA

Prep Batch: 11822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0996	0.09022		mg/Kg		90	70 - 130
Toluene	<0.00199	U	0.0996	0.08173		mg/Kg		82	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.08741		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1810		mg/Kg		91	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09148		mg/Kg		91	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-1540-14 MSD

Matrix: Solid

Analysis Batch: 11884

Client Sample ID: C-880

Prep Type: Total/NA

Prep Batch: 11822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0998	0.09030		mg/Kg		90	70 - 130	0	35
Toluene	<0.00199	U	0.0998	0.08201		mg/Kg		82	70 - 130	0	35
Ethylbenzene	<0.00199	U	0.0998	0.08428		mg/Kg		84	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1778		mg/Kg		89	70 - 130	2	35
o-Xylene	<0.00199	U	0.0998	0.09011		mg/Kg		90	70 - 130	2	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-11647/1-A

Matrix: Solid

Analysis Batch: 11639

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11647

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/08/21 08:50	11/08/21 11:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/08/21 08:50	11/08/21 11:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/08/21 08:50	11/08/21 11:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	11/08/21 08:50	11/08/21 11:51	1
o-Terphenyl (Surr)	128		70 - 130	11/08/21 08:50	11/08/21 11:51	1

Lab Sample ID: LCS 880-11647/2-A

Matrix: Solid

Analysis Batch: 11639

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1119		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	989.2		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	80		70 - 130
o-Terphenyl (Surr)	78		70 - 130

Lab Sample ID: LCSD 880-11647/3-A

Matrix: Solid

Analysis Batch: 11639

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11647

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1031		mg/Kg		103	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	861.2		mg/Kg		86	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	72		70 - 130
o-Terphenyl (Surr)	73		70 - 130

Lab Sample ID: 880-8014-A-8-B MS

Matrix: Solid

Analysis Batch: 11639

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1438	F1	mg/Kg		144	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1132		mg/Kg		110	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-8014-A-8-B MS

Matrix: Solid

Analysis Batch: 11639

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11647

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	104		70 - 130

Lab Sample ID: 880-8014-A-8-C MSD

Matrix: Solid

Analysis Batch: 11639

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 11647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	1468	F1	mg/Kg		147	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1246		mg/Kg		121	70 - 130	10	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	114		70 - 130
o-Terphenyl (Surr)	117		70 - 130

Lab Sample ID: MB 880-11648/1-A

Matrix: Solid

Analysis Batch: 11641

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11648

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 11:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 11:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/08/21 09:16	11/08/21 11:51	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	124		70 - 130	11/08/21 09:16	11/08/21 11:51	1		
o-Terphenyl (Surr)	146	S1+	70 - 130	11/08/21 09:16	11/08/21 11:51	1		

Lab Sample ID: LCS 880-11648/2-A

Matrix: Solid

Analysis Batch: 11641

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1103		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1056		mg/Kg		106	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	101		70 - 130
o-Terphenyl (Surr)	95		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-11648/3-A

Matrix: Solid

Analysis Batch: 11641

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11648

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1136		mg/Kg		114	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1164		mg/Kg		116	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	127		70 - 130						
o-Terphenyl (Surr)	103		70 - 130						

Lab Sample ID: 890-1540-1 MS

Matrix: Solid

Analysis Batch: 11641

Client Sample ID: C-746

Prep Type: Total/NA

Prep Batch: 11648

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	92		70 - 130

Lab Sample ID: 890-1540-1 MSD

Matrix: Solid

Analysis Batch: 11641

Client Sample ID: C-746

Prep Type: Total/NA

Prep Batch: 11648

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	94		70 - 130
o-Terphenyl (Surr)	76		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11827/1-A

Matrix: Solid

Analysis Batch: 11855

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/09/21 22:19	1

Lab Sample ID: LCS 880-11827/2-A

Matrix: Solid

Analysis Batch: 11855

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.6		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-11827/3-A

Matrix: Solid

Analysis Batch: 11855

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	252.4		mg/Kg		101	90 - 110	1	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-8089-A-4-D MS

Matrix: Solid

Analysis Batch: 11855

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.9		250	258.2		mg/Kg		97	90 - 110

Lab Sample ID: 880-8089-A-4-E MSD

Matrix: Solid

Analysis Batch: 11855

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	16.9		250	261.6		mg/Kg		98	90 - 110	1	20

Lab Sample ID: MB 880-11676/1-A

Matrix: Solid

Analysis Batch: 12124

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/16/21 08:57	1

Lab Sample ID: LCS 880-11676/2-A

Matrix: Solid

Analysis Batch: 12124

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	256.5		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-11676/3-A

Matrix: Solid

Analysis Batch: 12124

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	257.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-1540-1 MS

Matrix: Solid

Analysis Batch: 12124

Client Sample ID: C-746

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	617	F1	253	843.6		mg/Kg		90	90 - 110

Lab Sample ID: 890-1540-1 MSD

Matrix: Solid

Analysis Batch: 12124

Client Sample ID: C-746

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	617	F1	253	841.9	F1	mg/Kg		89	90 - 110	0	20

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

GC VOA

Prep Batch: 11663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-1	C-746	Total/NA	Solid	5035	
890-1540-2	C-743	Total/NA	Solid	5035	
890-1540-3	C-741	Total/NA	Solid	5035	
890-1540-4	C-739	Total/NA	Solid	5035	
890-1540-5	C-734	Total/NA	Solid	5035	
890-1540-6	C-730	Total/NA	Solid	5035	
890-1540-7	C-726	Total/NA	Solid	5035	
890-1540-8	C-725	Total/NA	Solid	5035	
890-1540-9	C-744	Total/NA	Solid	5035	
890-1540-10	C-696	Total/NA	Solid	5035	
MB 880-11663/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11663/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11663/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 11665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-1	C-746	Total/NA	Solid	8021B	11663
890-1540-2	C-743	Total/NA	Solid	8021B	11663
890-1540-3	C-741	Total/NA	Solid	8021B	11663
890-1540-4	C-739	Total/NA	Solid	8021B	11663
890-1540-5	C-734	Total/NA	Solid	8021B	11663
890-1540-6	C-730	Total/NA	Solid	8021B	11663
890-1540-7	C-726	Total/NA	Solid	8021B	11663
890-1540-8	C-725	Total/NA	Solid	8021B	11663
890-1540-9	C-744	Total/NA	Solid	8021B	11663
890-1540-10	C-696	Total/NA	Solid	8021B	11663
890-1540-11	C-679	Total/NA	Solid	8021B	11666
890-1540-12	C-671	Total/NA	Solid	8021B	11666
890-1540-13	C-670	Total/NA	Solid	8021B	11666
MB 880-11663/5-A	Method Blank	Total/NA	Solid	8021B	11663
MB 880-11666/5-A	Method Blank	Total/NA	Solid	8021B	11666
LCS 880-11663/1-A	Lab Control Sample	Total/NA	Solid	8021B	11663
LCS 880-11666/1-A	Lab Control Sample	Total/NA	Solid	8021B	11666
LCSD 880-11663/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11663
LCSD 880-11666/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11666
890-1540-11 MS	C-679	Total/NA	Solid	8021B	11666
890-1540-11 MSD	C-679	Total/NA	Solid	8021B	11666

Prep Batch: 11666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-11	C-679	Total/NA	Solid	5035	
890-1540-12	C-671	Total/NA	Solid	5035	
890-1540-13	C-670	Total/NA	Solid	5035	
MB 880-11666/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11666/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11666/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1540-11 MS	C-679	Total/NA	Solid	5035	
890-1540-11 MSD	C-679	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

GC VOA

Prep Batch: 11822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-14	C-880	Total/NA	Solid	5035	
890-1540-15	C-903	Total/NA	Solid	5035	
890-1540-16	C-895	Total/NA	Solid	5035	
890-1540-17	C-896	Total/NA	Solid	5035	
MB 880-11822/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11822/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11822/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1540-14 MS	C-880	Total/NA	Solid	5035	
890-1540-14 MSD	C-880	Total/NA	Solid	5035	

Analysis Batch: 11884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-14	C-880	Total/NA	Solid	8021B	11822
890-1540-15	C-903	Total/NA	Solid	8021B	11822
890-1540-16	C-895	Total/NA	Solid	8021B	11822
890-1540-17	C-896	Total/NA	Solid	8021B	11822
MB 880-11822/5-A	Method Blank	Total/NA	Solid	8021B	11822
LCS 880-11822/1-A	Lab Control Sample	Total/NA	Solid	8021B	11822
LCSD 880-11822/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11822
890-1540-14 MS	C-880	Total/NA	Solid	8021B	11822
890-1540-14 MSD	C-880	Total/NA	Solid	8021B	11822

Analysis Batch: 12040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-1	C-746	Total/NA	Solid	Total BTEX	
890-1540-2	C-743	Total/NA	Solid	Total BTEX	
890-1540-3	C-741	Total/NA	Solid	Total BTEX	
890-1540-4	C-739	Total/NA	Solid	Total BTEX	
890-1540-5	C-734	Total/NA	Solid	Total BTEX	
890-1540-6	C-730	Total/NA	Solid	Total BTEX	
890-1540-7	C-726	Total/NA	Solid	Total BTEX	
890-1540-8	C-725	Total/NA	Solid	Total BTEX	
890-1540-9	C-744	Total/NA	Solid	Total BTEX	
890-1540-10	C-696	Total/NA	Solid	Total BTEX	
890-1540-11	C-679	Total/NA	Solid	Total BTEX	
890-1540-12	C-671	Total/NA	Solid	Total BTEX	
890-1540-13	C-670	Total/NA	Solid	Total BTEX	
890-1540-14	C-880	Total/NA	Solid	Total BTEX	
890-1540-15	C-903	Total/NA	Solid	Total BTEX	
890-1540-16	C-895	Total/NA	Solid	Total BTEX	
890-1540-17	C-896	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 11639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-13	C-670	Total/NA	Solid	8015B NM	11647
890-1540-14	C-880	Total/NA	Solid	8015B NM	11647
890-1540-15	C-903	Total/NA	Solid	8015B NM	11647
890-1540-16	C-895	Total/NA	Solid	8015B NM	11647
890-1540-17	C-896	Total/NA	Solid	8015B NM	11647

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 11639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11647/1-A	Method Blank	Total/NA	Solid	8015B NM	11647
LCS 880-11647/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11647
LCSD 880-11647/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11647
880-8014-A-8-B MS	Matrix Spike	Total/NA	Solid	8015B NM	11647
880-8014-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11647

Analysis Batch: 11641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-1	C-746	Total/NA	Solid	8015B NM	11648
890-1540-2	C-743	Total/NA	Solid	8015B NM	11648
890-1540-3	C-741	Total/NA	Solid	8015B NM	11648
890-1540-4	C-739	Total/NA	Solid	8015B NM	11648
890-1540-5	C-734	Total/NA	Solid	8015B NM	11648
890-1540-6	C-730	Total/NA	Solid	8015B NM	11648
890-1540-7	C-726	Total/NA	Solid	8015B NM	11648
890-1540-8	C-725	Total/NA	Solid	8015B NM	11648
890-1540-9	C-744	Total/NA	Solid	8015B NM	11648
890-1540-10	C-696	Total/NA	Solid	8015B NM	11648
890-1540-11	C-679	Total/NA	Solid	8015B NM	11648
890-1540-12	C-671	Total/NA	Solid	8015B NM	11648
MB 880-11648/1-A	Method Blank	Total/NA	Solid	8015B NM	11648
LCS 880-11648/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11648
LCSD 880-11648/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11648
890-1540-1 MS	C-746	Total/NA	Solid	8015B NM	11648
890-1540-1 MSD	C-746	Total/NA	Solid	8015B NM	11648

Prep Batch: 11647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-13	C-670	Total/NA	Solid	8015NM Prep	
890-1540-14	C-880	Total/NA	Solid	8015NM Prep	
890-1540-15	C-903	Total/NA	Solid	8015NM Prep	
890-1540-16	C-895	Total/NA	Solid	8015NM Prep	
890-1540-17	C-896	Total/NA	Solid	8015NM Prep	
MB 880-11647/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11647/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11647/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-8014-A-8-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-8014-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 11648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-1	C-746	Total/NA	Solid	8015NM Prep	
890-1540-2	C-743	Total/NA	Solid	8015NM Prep	
890-1540-3	C-741	Total/NA	Solid	8015NM Prep	
890-1540-4	C-739	Total/NA	Solid	8015NM Prep	
890-1540-5	C-734	Total/NA	Solid	8015NM Prep	
890-1540-6	C-730	Total/NA	Solid	8015NM Prep	
890-1540-7	C-726	Total/NA	Solid	8015NM Prep	
890-1540-8	C-725	Total/NA	Solid	8015NM Prep	
890-1540-9	C-744	Total/NA	Solid	8015NM Prep	
890-1540-10	C-696	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 11648 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-11	C-679	Total/NA	Solid	8015NM Prep	
890-1540-12	C-671	Total/NA	Solid	8015NM Prep	
MB 880-11648/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11648/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11648/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1540-1 MS	C-746	Total/NA	Solid	8015NM Prep	
890-1540-1 MSD	C-746	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-1	C-746	Total/NA	Solid	8015 NM	
890-1540-2	C-743	Total/NA	Solid	8015 NM	
890-1540-3	C-741	Total/NA	Solid	8015 NM	
890-1540-4	C-739	Total/NA	Solid	8015 NM	
890-1540-5	C-734	Total/NA	Solid	8015 NM	
890-1540-6	C-730	Total/NA	Solid	8015 NM	
890-1540-7	C-726	Total/NA	Solid	8015 NM	
890-1540-8	C-725	Total/NA	Solid	8015 NM	
890-1540-9	C-744	Total/NA	Solid	8015 NM	
890-1540-10	C-696	Total/NA	Solid	8015 NM	
890-1540-11	C-679	Total/NA	Solid	8015 NM	
890-1540-12	C-671	Total/NA	Solid	8015 NM	
890-1540-13	C-670	Total/NA	Solid	8015 NM	
890-1540-14	C-880	Total/NA	Solid	8015 NM	
890-1540-15	C-903	Total/NA	Solid	8015 NM	
890-1540-16	C-895	Total/NA	Solid	8015 NM	
890-1540-17	C-896	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 11676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-1	C-746	Soluble	Solid	DI Leach	
890-1540-2	C-743	Soluble	Solid	DI Leach	
890-1540-3	C-741	Soluble	Solid	DI Leach	
890-1540-4	C-739	Soluble	Solid	DI Leach	
890-1540-5	C-734	Soluble	Solid	DI Leach	
890-1540-6	C-730	Soluble	Solid	DI Leach	
890-1540-7	C-726	Soluble	Solid	DI Leach	
890-1540-8	C-725	Soluble	Solid	DI Leach	
890-1540-9	C-744	Soluble	Solid	DI Leach	
890-1540-10	C-696	Soluble	Solid	DI Leach	
MB 880-11676/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11676/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11676/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1540-1 MS	C-746	Soluble	Solid	DI Leach	
890-1540-1 MSD	C-746	Soluble	Solid	DI Leach	

Leach Batch: 11827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-11	C-679	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 11827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-12	C-671	Soluble	Solid	DI Leach	
890-1540-13	C-670	Soluble	Solid	DI Leach	
890-1540-14	C-880	Soluble	Solid	DI Leach	
890-1540-15	C-903	Soluble	Solid	DI Leach	
890-1540-16	C-895	Soluble	Solid	DI Leach	
890-1540-17	C-896	Soluble	Solid	DI Leach	
MB 880-11827/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11827/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11827/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8089-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8089-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 11855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-11	C-679	Soluble	Solid	300.0	11827
890-1540-12	C-671	Soluble	Solid	300.0	11827
890-1540-13	C-670	Soluble	Solid	300.0	11827
890-1540-14	C-880	Soluble	Solid	300.0	11827
890-1540-15	C-903	Soluble	Solid	300.0	11827
890-1540-16	C-895	Soluble	Solid	300.0	11827
890-1540-17	C-896	Soluble	Solid	300.0	11827
MB 880-11827/1-A	Method Blank	Soluble	Solid	300.0	11827
LCS 880-11827/2-A	Lab Control Sample	Soluble	Solid	300.0	11827
LCSD 880-11827/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11827
880-8089-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	11827
880-8089-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11827

Analysis Batch: 12124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1540-1	C-746	Soluble	Solid	300.0	11676
890-1540-2	C-743	Soluble	Solid	300.0	11676
890-1540-3	C-741	Soluble	Solid	300.0	11676
890-1540-4	C-739	Soluble	Solid	300.0	11676
890-1540-5	C-734	Soluble	Solid	300.0	11676
890-1540-6	C-730	Soluble	Solid	300.0	11676
890-1540-7	C-726	Soluble	Solid	300.0	11676
890-1540-8	C-725	Soluble	Solid	300.0	11676
890-1540-9	C-744	Soluble	Solid	300.0	11676
890-1540-10	C-696	Soluble	Solid	300.0	11676
MB 880-11676/1-A	Method Blank	Soluble	Solid	300.0	11676
LCS 880-11676/2-A	Lab Control Sample	Soluble	Solid	300.0	11676
LCSD 880-11676/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11676
890-1540-1 MS	C-746	Soluble	Solid	300.0	11676
890-1540-1 MSD	C-746	Soluble	Solid	300.0	11676

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-746

Lab Sample ID: 890-1540-1

Date Collected: 11/02/21 14:01

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11663	11/08/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/08/21 18:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11648	11/08/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11641	11/08/21 12:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	11676	11/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1			12124	11/16/21 11:02	CH	XEN MID

Client Sample ID: C-743

Lab Sample ID: 890-1540-2

Date Collected: 11/02/21 14:03

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11663	11/08/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/08/21 18:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11648	11/08/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11641	11/08/21 13:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11676	11/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1			12124	11/16/21 11:24	CH	XEN MID

Client Sample ID: C-741

Lab Sample ID: 890-1540-3

Date Collected: 11/02/21 14:04

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11663	11/08/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/08/21 18:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11648	11/08/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11641	11/08/21 14:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11676	11/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1			12124	11/16/21 11:32	CH	XEN MID

Client Sample ID: C-739

Lab Sample ID: 890-1540-4

Date Collected: 11/02/21 14:05

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11663	11/08/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/08/21 19:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-739

Lab Sample ID: 890-1540-4

Date Collected: 11/02/21 14:05

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11648	11/08/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11641	11/08/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11676	11/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1			12124	11/16/21 11:54	CH	XEN MID

Client Sample ID: C-734

Lab Sample ID: 890-1540-5

Date Collected: 11/02/21 14:05

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11663	11/08/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/08/21 19:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11648	11/08/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11641	11/08/21 14:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11676	11/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1			12124	11/16/21 12:01	CH	XEN MID

Client Sample ID: C-730

Lab Sample ID: 890-1540-6

Date Collected: 11/02/21 14:07

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11663	11/08/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/08/21 19:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11648	11/08/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11641	11/08/21 15:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11676	11/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1			12124	11/16/21 12:09	CH	XEN MID

Client Sample ID: C-726

Lab Sample ID: 890-1540-7

Date Collected: 11/02/21 14:08

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11663	11/08/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/08/21 20:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	11648	11/08/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11641	11/08/21 15:33	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-726

Date Collected: 11/02/21 14:08

Date Received: 11/04/21 15:02

Lab Sample ID: 890-1540-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	11676	11/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1			12124	11/16/21 12:16	CH	XEN MID

Client Sample ID: C-725

Date Collected: 11/02/21 14:09

Date Received: 11/04/21 15:02

Lab Sample ID: 890-1540-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11663	11/08/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/08/21 20:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11648	11/08/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11641	11/08/21 15:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11676	11/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1			12124	11/16/21 12:23	CH	XEN MID

Client Sample ID: C-744

Date Collected: 11/02/21 14:02

Date Received: 11/04/21 15:02

Lab Sample ID: 890-1540-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11663	11/08/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/08/21 20:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11648	11/08/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11641	11/08/21 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11676	11/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1			12124	11/16/21 12:31	CH	XEN MID

Client Sample ID: C-696

Date Collected: 11/03/21 09:14

Date Received: 11/04/21 15:02

Lab Sample ID: 890-1540-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11663	11/08/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/08/21 21:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11648	11/08/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11641	11/08/21 16:34	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11676	11/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1			12124	11/16/21 12:38	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-679

Lab Sample ID: 890-1540-11

Date Collected: 11/03/21 09:15

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11666	11/08/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/09/21 00:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11648	11/08/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11641	11/08/21 17:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	11827	11/09/21 13:32	SC	XEN MID
Soluble	Analysis	300.0		1			11855	11/10/21 00:53	CH	XEN MID

Client Sample ID: C-671

Lab Sample ID: 890-1540-12

Date Collected: 11/03/21 09:17

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	11666	11/08/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/09/21 00:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11648	11/08/21 09:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11641	11/08/21 17:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11827	11/09/21 13:32	SC	XEN MID
Soluble	Analysis	300.0		1			11855	11/10/21 01:01	CH	XEN MID

Client Sample ID: C-670

Lab Sample ID: 890-1540-13

Date Collected: 11/03/21 09:18

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11666	11/08/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11665	11/09/21 01:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11647	11/08/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11639	11/08/21 15:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11827	11/09/21 13:32	SC	XEN MID
Soluble	Analysis	300.0		1			11855	11/10/21 01:24	CH	XEN MID

Client Sample ID: C-880

Lab Sample ID: 890-1540-14

Date Collected: 11/04/21 09:32

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11822	11/10/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11884	11/10/21 14:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-880

Lab Sample ID: 890-1540-14

Date Collected: 11/04/21 09:32

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11647	11/08/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11639	11/08/21 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11827	11/09/21 13:32	SC	XEN MID
Soluble	Analysis	300.0		1			11855	11/10/21 01:32	CH	XEN MID

Client Sample ID: C-903

Lab Sample ID: 890-1540-15

Date Collected: 11/04/21 09:35

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11822	11/10/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11884	11/10/21 15:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11647	11/08/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11639	11/08/21 16:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11827	11/09/21 13:32	SC	XEN MID
Soluble	Analysis	300.0		1			11855	11/10/21 01:39	CH	XEN MID

Client Sample ID: C-895

Lab Sample ID: 890-1540-16

Date Collected: 11/04/21 09:37

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11822	11/10/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11884	11/10/21 15:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11647	11/08/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11639	11/08/21 17:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11827	11/09/21 13:32	SC	XEN MID
Soluble	Analysis	300.0		1			11855	11/10/21 01:47	CH	XEN MID

Client Sample ID: C-896

Lab Sample ID: 890-1540-17

Date Collected: 11/04/21 09:38

Matrix: Solid

Date Received: 11/04/21 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11822	11/10/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11884	11/10/21 15:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11647	11/08/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11639	11/08/21 17:37	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Client Sample ID: C-896
Date Collected: 11/04/21 09:38
Date Received: 11/04/21 15:02

Lab Sample ID: 890-1540-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	11827	11/09/21 13:32	SC	XEN MID
Soluble	Analysis	300.0		1			11855	11/10/21 01:55	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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- 14

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1540-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1540-1	C-746	Solid	11/02/21 14:01	11/04/21 15:02
890-1540-2	C-743	Solid	11/02/21 14:03	11/04/21 15:02
890-1540-3	C-741	Solid	11/02/21 14:04	11/04/21 15:02
890-1540-4	C-739	Solid	11/02/21 14:05	11/04/21 15:02
890-1540-5	C-734	Solid	11/02/21 14:05	11/04/21 15:02
890-1540-6	C-730	Solid	11/02/21 14:07	11/04/21 15:02
890-1540-7	C-726	Solid	11/02/21 14:08	11/04/21 15:02
890-1540-8	C-725	Solid	11/02/21 14:09	11/04/21 15:02
890-1540-9	C-744	Solid	11/02/21 14:02	11/04/21 15:02
890-1540-10	C-696	Solid	11/03/21 09:14	11/04/21 15:02
890-1540-11	C-679	Solid	11/03/21 09:15	11/04/21 15:02
890-1540-12	C-671	Solid	11/03/21 09:17	11/04/21 15:02
890-1540-13	C-670	Solid	11/03/21 09:18	11/04/21 15:02
890-1540-14	C-880	Solid	11/04/21 09:32	11/04/21 15:02
890-1540-15	C-903	Solid	11/04/21 09:35	11/04/21 15:02
890-1540-16	C-895	Solid	11/04/21 09:37	11/04/21 15:02
890-1540-17	C-896	Solid	11/04/21 09:38	11/04/21 15:02

Marson & Associates, Inc.

Environmental Consultants

Data Reported to:

890-1540 Chain of Custody



Cooling in progress

CHAIN-OF-CUSTODY

No. 2169

DATE: 11-4-21

PAGE 1 OF 2

PO#:

LAB WORK ORDER#:

PROJECT LOCATION OR NAME:

Palmdale Ast

LAI PROJECT #: 21-0105-02

COLLECTOR: TPD

TRRP report?
☐ Yes ☒ No
 TIME ZONE
 Time zone/State
 MST/MN

S=SOIL
 W=WATER
 A=AIR
 P=PAINT
 SL=SLUDGE
 OT=OTHER

PRESERVATION

HCl
 HNO₃
 H₂SO₄ ☐ NaOH ☐
 ICE
 UNPRESERVED

ANALYSES

BTEX ☒ MTBE ☒
 TPH 418.1 ☒ TPH 1005 ☒ TPH 1006 ☒
 GASOLINE MOD 8015 ☒
 DIESEL - MOD 8015 ☒
 OIL - MOD 8015 ☒
 VOC 8260 ☒
 SVOC 8270 ☒
 8081 PESTICIDES ☒ PAH 8270 ☒ HOLD PAH ☒
 8082 PESTICIDES ☒ 8151 HERBICIDES ☒
 TCLP - METALS (RCRA) ☒ TCLP VOC ☒
 TCLP - PEST ☒ TCLP VOC ☒
 TOTAL METALS (RCRA) ☒ TCLP VOC ☒
 LEAD - TOTAL ☒ D.W. 200.8 ☒ TCLP ☒
 RCI ☒ TOX ☒ FLASHPOINT ☒
 TDS ☒ TSS ☒ % MOISTURE ☒ CYANIDE ☒
 PH ☒ HEXAVALENT CHROMIUM ☒ PECHLORATE ☒
 EXPLOSIVES ☒ ANIONS ☒ ALKALINITY ☒
 CHLORIDES ☒

FIELD NOTES

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐	NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
C-746		11-2-21	1401	S	1							X	
C-743			1403									X	
C-741			1404									X	
C-739			1405									X	
C-734			1406									X	
C-730			1407									X	
C-726			1408									X	
C-725			1409									X	
C-744			1402									X	
C-696		11-3-21	0914									X	
C-679			0915									X	
C-671			0917									X	
C-670			0916									X	
C-881		11-4-21	0932	S								X	
C-903		11-4-21	0935	S								X	
TOTAL 15													

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP. 6.0 THERM# T-000000

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP. 6.0 THERM# T-000000

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP. 6.0 THERM# T-000000

LABORATORY: Xenco

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP. 6.0 THERM# T-000000

1
2
3
4
5
6
7
8
9
10
11
12
13
14

No. 2170

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

507 N. Marientfield, Ste. 202
Midland, TX 79701
432.687.0901

DATE: 11-4-21 PAGE 2 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Palmco ASX

LAI PROJECT #: 21-0105-02 COLLECTOR: TP

Data Reported to:

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State

MST/ NM

Field Sample I.D.
Lab #
Date
Time
Matrix

of Containers

PRESERVATION
HCl
HNO₃
H₂SO₄ NaOH
ICE
UNPRESSERVED

ANALYSES

BTEX / MTBE
TPH 1005 TPH 1006
GASOLINE MOD 8015
DIESEL - MOD 8015
OIL - MOD 8015
VOC 8260
SVOC 8270
8081 PESTICIDES PAH 8270 HOLDPAH
8082 PCBs 8151 HERBICIDES
TCPP - METALS (RCRA) TCPL VOC
TOTAL PEST HERB Sem-VOC
LEAD - TOTAL DW 2008 OTHER LIST
RCL TOX FLASHPOINT
TDS TSS % MOISTURE CYANIDE
PH HEXAVALENT CHROMIUM
EXPLOSIVES PECHLORATE
CHLORIDES ANIONS ALKALINITY

FIELD NOTES

TOTAL 2

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

LABORATORY

Xenico

TURN AROUND TIME

NORMAL 1 DAY

2 DAY

OTHER

LABORATORY USE ONLY:

RECEIVING TEMP 6.8 THERM#

CUSTODY SEALS - BROKEN INTACT NOT USED

CARRIER BILL #

HAND DELIVERED

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No									
Client Contact:	Phone:	Taylor Holly			890-497 1									
Shipping/Receiving	E-Mail:	holly.taylor@eurofinset.com	State of Origin:	New Mexico	Page: 1 of 2									
Company:	Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #									
Address:	Due Date Requested	11/10/2021	890-1540-1											
City:	TAT Requested (days)		Preservation Codes											
Midland			A. HCL M. Hexane B. NaOH N. None C. Zn Acetate O. AsnO2 D. Nitric Acid P. Na2CO3 E. NaHSO4 Q. Na2SO3 F. MeOH R. Na2S2O3 G. Amchlor S. H2SO4 H. Ascorbic Acid T. TSP Dodecylsulfate I. Ice U. Acetone J. DI Water V. MCAA K. EDTA W. pH 4-5 L. EDTA Z. other (specify)											
State Zip	TX 79701		Other:											
Phone	432-704-5440(Tel)	PO #:												
Email	WO #	Project #:												
		89000025												
Project Name	Palmco AST	SSOW#												
Site														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefail, BT=Trisium, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFMM_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
C-746 (890-1540-1)		11/2/21	14 01		Solid	X	X	X	X	X	X	X	1	
C-743 (890-1540-2)		11/2/21	14 03		Solid	X	X	X	X	X	X	X	1	
C-741 (890-1540-3)		11/2/21	14 04		Solid	X	X	X	X	X	X	X	1	
C-739 (890-1540-4)		11/2/21	14 05		Solid	X	X	X	X	X	X	X	1	
C-734 (890-1540-5)		11/2/21	14 05		Solid	X	X	X	X	X	X	X	1	
C-730 (890-1540-6)		11/2/21	14 07		Solid	X	X	X	X	X	X	X	1	
C-726 (890-1540-7)		11/2/21	14 08		Solid	X	X	X	X	X	X	X	1	
C-725 (890-1540-8)		11/2/21	14 09		Solid	X	X	X	X	X	X	X	1	
C-744 (890-1540-9)		11/2/21	14 02		Solid	X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analytestestmatrix, being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months														
Special Instructions/QC Requirements														
Empty Kit Relinquished by _____ Date _____ Time _____ Method of Shipment: _____														
Relinquished by _____ Date/Time _____ Company _____ Received by _____ Date/Time _____ Company _____														
Relinquished by _____ Date/Time _____ Company _____ Received by _____ Date/Time _____ Company _____														
Custody Seals Intact _____ Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks: _____														
A Yes A No														

Chain of Custody Record

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

eurofins
Environment Testing
America

Client Information (Sub Contract Lab)				Sampler		Lab PM		Carrier Tracking No(s)		COC No	
Client Contact: Shipping/Receiving				Phone		Taylor Holly		State of Origin		Page: 2 of 2	
Company: Eurofins Xenco				E-Mail		holly.taylor@eurofinsel.com		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #	
Address: 1211 W Florida Ave				Due Date Requested		11/10/2021		Analysis Requested		890-497 2	
City: Midland				TAT Requested (days)						890-1540-1	
State, Zip: TX 79701										Preservation Codes	
Phone: 432-704-5440 (Tel)				PO #:						A. HCL	
Email:				WO #:						B. NaOH	
Project Name: Palmco AST				Project #:		89000025				C. 2% Acetic Acid	
Site:				SSOW#:						D. Nitric Acid	
										E. NaHSO4	
										F. MeOH	
										G. Amchlor	
										H. Ascorbic Acid	
										I. Ice	
										J. DI Water	
										K. EDTA	
										L. EDA	
										M. Hexane	
										N. None	
										O. Na2SO3	
										P. Na2CO3	
										Q. Na2S2O3	
										R. Na2S2O3	
										S. H2SO4	
										T. TSP Dodecylhydrate	
										U. Acetone	
										V. MCAA	
										W. pH 4-5	
										Z. Other (Specify)	
										Other:	

Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=overhead, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested				Total Number of containers				Special Instructions/Note			
C-696 (890-1540-10)				11/3/21	09 14	Solid		X	X	X	X	X	X	X	X	X	X	X			
C-679 (890-1540-11)				11/3/21	09 15	Solid		X	X	X	X	X	X	X	X	X	X	X			
C-671 (890-1540-12)				11/3/21	09 17	Solid		X	X	X	X	X	X	X	X	X	X	X			
C-670 (890-1540-13)				11/3/21	09 18	Solid		X	X	X	X	X	X	X	X	X	X	X			
C-881 (890-1540-14)				11/4/21	09 32	Solid		X	X	X	X	X	X	X	X	X	X	X			
C-903 (890-1540-15)				11/4/21	09 35	Solid		X	X	X	X	X	X	X	X	X	X	X			
C-895 (890-1540-16)				11/4/21	09 37	Solid		X	X	X	X	X	X	X	X	X	X	X			
C-896 (890-1540-17)				11/4/21	09 38	Solid		X	X	X	X	X	X	X	X	X	X	X			

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				Return To Client			
Deliverable Requested I II III IV Other (specify)				Disposal By Lab			
Primary Deliverable Rank 2				Archive For			
Empty Kit Relinquished by				Months			
Relinquished by				Date/Time			
Relinquished by				Date/Time			
Relinquished by				Date/Time			
Custody Seals Intact:				Cooler Temperature(s) °C and Other Remarks			
A Yes A No							

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1540-1

SDG Number: 21-0105-02

Login Number: 1540**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1540-1

SDG Number: 21-0105-02

Login Number: 1540**List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Midland****List Creation: 11/08/21 09:57 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6/2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-8058-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
11/15/2021 3:47:41 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-8058-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

Job ID: 880-8058-1

Laboratory: Eurofins Xenco, Midland**Narrative**

Job Narrative
880-8058-1

Receipt

The sample was received on 11/8/2021 3:17 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.9°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-11848/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

Client Sample ID: C-673

Lab Sample ID: 880-8058-1

Date Collected: 11/05/21 08:16

Matrix: Solid

Date Received: 11/08/21 15:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/09/21 08:29	11/09/21 19:38	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/09/21 08:29	11/09/21 19:38	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/09/21 08:29	11/09/21 19:38	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		11/09/21 08:29	11/09/21 19:38	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/09/21 08:29	11/09/21 19:38	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		11/09/21 08:29	11/09/21 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	11/09/21 08:29	11/09/21 19:38	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/09/21 08:29	11/09/21 19:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			11/11/21 14:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/11/21 15:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/09/21 15:18	11/10/21 01:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/09/21 15:18	11/10/21 01:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/09/21 15:18	11/10/21 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	11/09/21 15:18	11/10/21 01:50	1
o-Terphenyl (Surr)	114		70 - 130	11/09/21 15:18	11/10/21 01:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	473		5.01	mg/Kg			11/13/21 20:24	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-8058-1	C-673	115	98
880-8083-A-3-B MS	Matrix Spike	126	106
880-8083-A-3-C MSD	Matrix Spike Duplicate	122	103
LCS 880-11794/1-A	Lab Control Sample	113	102
LCSD 880-11794/2-A	Lab Control Sample Dup	116	101
MB 880-11794/5-A	Method Blank	119	106
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-8058-1	C-673	106	114
890-1544-A-1-F MS	Matrix Spike	107	103
890-1544-A-1-G MSD	Matrix Spike Duplicate	107	104
LCS 880-11848/2-A	Lab Control Sample	119	128
LCSD 880-11848/3-A	Lab Control Sample Dup	119	122
MB 880-11848/1-A	Method Blank	121	134 S1+
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11794/5-A

Matrix: Solid

Analysis Batch: 11793

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11794

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/09/21 08:29	11/09/21 11:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/09/21 08:29	11/09/21 11:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/09/21 08:29	11/09/21 11:26	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/09/21 08:29	11/09/21 11:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/09/21 08:29	11/09/21 11:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/09/21 08:29	11/09/21 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	11/09/21 08:29	11/09/21 11:26	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/09/21 08:29	11/09/21 11:26	1

Lab Sample ID: LCS 880-11794/1-A

Matrix: Solid

Analysis Batch: 11793

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09176		mg/Kg		92	70 - 130
Toluene	0.100	0.09873		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09888		mg/Kg		99	70 - 130
m,p-Xylenes	0.200	0.2005		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09827		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-11794/2-A

Matrix: Solid

Analysis Batch: 11793

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09636		mg/Kg		96	70 - 130	5	35
Toluene	0.100	0.1045		mg/Kg		104	70 - 130	6	35
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	11	35
m,p-Xylenes	0.200	0.2151		mg/Kg		108	70 - 130	7	35
o-Xylene	0.100	0.1103		mg/Kg		110	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-8083-A-3-B MS

Matrix: Solid

Analysis Batch: 11793

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11794

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.0998	0.08330		mg/Kg		83	70 - 130
Toluene	<0.00201	U	0.0998	0.08994		mg/Kg		88	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-8083-A-3-B MS

Matrix: Solid

Analysis Batch: 11793

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11794

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00201	U	0.0998	0.09268		mg/Kg		93	70 - 130
m,p-Xylenes	<0.00402	U	0.200	0.1837		mg/Kg		90	70 - 130
o-Xylene	<0.00201	U	0.0998	0.09012		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-8083-A-3-C MSD

Matrix: Solid

Analysis Batch: 11793

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 11794

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.08526		mg/Kg		85	70 - 130	2	35
Toluene	<0.00201	U	0.0996	0.08894		mg/Kg		88	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0996	0.09281		mg/Kg		93	70 - 130	0	35
m,p-Xylenes	<0.00402	U	0.199	0.1748		mg/Kg		86	70 - 130	5	35
o-Xylene	<0.00201	U	0.0996	0.08654		mg/Kg		85	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-11848/1-A

Matrix: Solid

Analysis Batch: 11800

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11848

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/09/21 15:18	11/09/21 20:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/09/21 15:18	11/09/21 20:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/09/21 15:18	11/09/21 20:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130	11/09/21 15:18	11/09/21 20:36	1
o-Terphenyl (Surr)	134	S1+	70 - 130	11/09/21 15:18	11/09/21 20:36	1

Lab Sample ID: LCS 880-11848/2-A

Matrix: Solid

Analysis Batch: 11800

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11848

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	986.0		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1288		mg/Kg		129	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-11848/2-A

Matrix: Solid

Analysis Batch: 11800

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11848

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	119		70 - 130
o-Terphenyl (Surr)	128		70 - 130

Lab Sample ID: LCSD 880-11848/3-A

Matrix: Solid

Analysis Batch: 11800

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11848

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	992.3		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1104		mg/Kg		110	70 - 130	15	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	119		70 - 130
o-Terphenyl (Surr)	122		70 - 130

Lab Sample ID: 890-1544-A-1-F MS

Matrix: Solid

Analysis Batch: 11800

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11848

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1145		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1151		mg/Kg		115	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	103		70 - 130

Lab Sample ID: 890-1544-A-1-G MSD

Matrix: Solid

Analysis Batch: 11800

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 11848

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1198		mg/Kg		120	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1163		mg/Kg		116	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	104		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11840/1-A

Matrix: Solid

Analysis Batch: 12198

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/13/21 19:21	1

Lab Sample ID: LCS 880-11840/2-A

Matrix: Solid

Analysis Batch: 12198

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	256.9		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-11840/3-A

Matrix: Solid

Analysis Batch: 12198

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.7		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-8081-A-4-D MS

Matrix: Solid

Analysis Batch: 12198

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	26.6		250	271.5		mg/Kg		98	90 - 110

Lab Sample ID: 880-8081-A-4-E MSD

Matrix: Solid

Analysis Batch: 12198

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	26.6		250	279.6		mg/Kg		101	90 - 110	3	20

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

GC VOA

Analysis Batch: 11793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8058-1	C-673	Total/NA	Solid	8021B	11794
MB 880-11794/5-A	Method Blank	Total/NA	Solid	8021B	11794
LCS 880-11794/1-A	Lab Control Sample	Total/NA	Solid	8021B	11794
LCSD 880-11794/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11794
880-8083-A-3-B MS	Matrix Spike	Total/NA	Solid	8021B	11794
880-8083-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11794

Prep Batch: 11794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8058-1	C-673	Total/NA	Solid	5035	
MB 880-11794/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11794/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11794/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8083-A-3-B MS	Matrix Spike	Total/NA	Solid	5035	
880-8083-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 12040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8058-1	C-673	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 11800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8058-1	C-673	Total/NA	Solid	8015B NM	11848
MB 880-11848/1-A	Method Blank	Total/NA	Solid	8015B NM	11848
LCS 880-11848/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11848
LCSD 880-11848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11848
890-1544-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	11848
890-1544-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11848

Prep Batch: 11848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8058-1	C-673	Total/NA	Solid	8015NM Prep	
MB 880-11848/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11848/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1544-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1544-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8058-1	C-673	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 11840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8058-1	C-673	Soluble	Solid	DI Leach	
MB 880-11840/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11840/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11840/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 11840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8081-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8081-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 12198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8058-1	C-673	Soluble	Solid	300.0	11840
MB 880-11840/1-A	Method Blank	Soluble	Solid	300.0	11840
LCS 880-11840/2-A	Lab Control Sample	Soluble	Solid	300.0	11840
LCSD 880-11840/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11840
880-8081-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	11840
880-8081-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11840

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

Client Sample ID: C-673
Date Collected: 11/05/21 08:16
Date Received: 11/08/21 15:17

Lab Sample ID: 880-8058-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	11794	11/09/21 08:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11793	11/09/21 19:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12045	11/11/21 15:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11848	11/09/21 15:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11800	11/10/21 01:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11840	11/09/21 14:30	SC	XEN MID
Soluble	Analysis	300.0		1			12198	11/13/21 20:24	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8058-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-8058-1	C-673	Solid	11/05/21 08:16	11/08/21 15:17

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Varson & Associates, Inc.
Environmental Consultants

507 N Marengfeld, Ste 202
Midland TX 79701
432-687-0901

DATE **11-8-21**
PO#
PROJECT LOCATION OR NAME
LAI PROJECT # **21-0105-02**

LAB WORK ORDER #
Palma's 45t
COLLECTOR **TP**



171
11/15/2021

Data Reported to

TRRP report?
☐ Yes ☒ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

TIME ZONE
Time zone/State
MST/NM

Field Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESSERVED

PRESERVATION

ANALYSES

BTEX ☒ MTBE ☐

TPH 418 ☐ TPH 1005 ☐ TPH 1006 ☐

GASOLINE MOD 8015 ☒

DIESEL - MOD 8015 ☒

OIL - MOD 8015 ☒

VOC 8260 ☒

SVOC 8270 ☒

8081 PESTICIDES ☐ PAH 8270 ☐ HOLDPAH ☐

8082 PCBs ☐ 8151 HERBICIDES ☐

TCLP METALS (RCRA) ☐ TCLP VOC ☐

TCLP METALS (RCRA) ☐ Semi-VOC ☐

LEAD - TOTAL ☐ DW 200 ☐ TCLP ☐

RCL ☐ TOX ☐ FLASHPOINT ☐

TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

PH ☐ HEXAVALENT CHROMIUM ☐

EXPLOSIVES ☐ PENTACHLORATE ☐

CHLORIDE ANIONS ☐ ALKALINITY ☐

FIELD NOTES

C-673

11/5/21

0816

S

1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

TOTAL **1**

RELINQUISHED BY (Signature)

11-8-21

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

LABORATORY **Xenco**

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP **-4** THERM#

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-8058-1

SDG Number: 21-0105-02

Login Number: 8058

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1561-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
11/22/2021 5:17:26 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1561-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Job ID: 890-1561-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1561-1

Comments

No additional comments.

Receipt

The samples were received on 11/10/2021 3:04 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.4° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12025 and analytical batch 880-12497 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-704 4.1 (890-1561-2), C-705 4.1 (890-1561-3), C-708 4.1 (890-1561-6), C-709 4.1 (890-1561-7), C-711 4.1 (890-1561-9) and C-712 4.1 (890-1561-10). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-12272 and analytical batch 880-12842 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-703 4.1

Lab Sample ID: 890-1561-1

Date Collected: 11/09/21 11:23

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198	mg/Kg		11/11/21 13:02	11/18/21 00:53	1
Toluene	<0.00198	U F1	0.00198	mg/Kg		11/11/21 13:02	11/18/21 00:53	1
Ethylbenzene	<0.00198	U F1	0.00198	mg/Kg		11/11/21 13:02	11/18/21 00:53	1
m-Xylene & p-Xylene	<0.00397	U F1	0.00397	mg/Kg		11/11/21 13:02	11/18/21 00:53	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/11/21 13:02	11/18/21 00:53	1
Xylenes, Total	<0.00397	U F1	0.00397	mg/Kg		11/11/21 13:02	11/18/21 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	11/11/21 13:02	11/18/21 00:53	1
1,4-Difluorobenzene (Surr)	75		70 - 130	11/11/21 13:02	11/18/21 00:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 12:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 12:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	11/11/21 16:36	11/12/21 12:20	1
o-Terphenyl (Surr)	116		70 - 130	11/11/21 16:36	11/12/21 12:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4020		25.0	mg/Kg			11/21/21 15:41	5

Client Sample ID: C-704 4.1

Lab Sample ID: 890-1561-2

Date Collected: 11/09/21 11:24

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 01:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 01:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 01:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 01:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 01:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	11/11/21 13:02	11/18/21 01:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-704 4.1

Lab Sample ID: 890-1561-2

Date Collected: 11/09/21 11:24

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	11/11/21 13:02	11/18/21 01:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 13:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 13:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 13:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			11/11/21 16:36	11/12/21 13:25	1
o-Terphenyl (Surr)	121		70 - 130			11/11/21 16:36	11/12/21 13:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	795		5.04	mg/Kg			11/21/21 16:03	1

Client Sample ID: C-705 4.1

Lab Sample ID: 890-1561-3

Date Collected: 11/09/21 11:25

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 01:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 01:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 01:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 01:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 01:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	11/11/21 13:02	11/18/21 01:34	1
1,4-Difluorobenzene (Surr)	78		70 - 130	11/11/21 13:02	11/18/21 01:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/16/21 09:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-705 4.1

Lab Sample ID: 890-1561-3

Date Collected: 11/09/21 11:25

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 13:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 13:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 13:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			11/11/21 16:36	11/12/21 13:47	1
o-Terphenyl (Surr)	116		70 - 130			11/11/21 16:36	11/12/21 13:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	563		5.00	mg/Kg			11/21/21 16:10	1

Client Sample ID: C-706 4.1

Lab Sample ID: 890-1561-4

Date Collected: 11/09/21 11:26

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 01:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 01:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 01:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/11/21 13:02	11/18/21 01:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 01:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/11/21 13:02	11/18/21 01:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			11/11/21 13:02	11/18/21 01:54	1
1,4-Difluorobenzene (Surr)	89		70 - 130			11/11/21 13:02	11/18/21 01:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 14:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 14:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 14:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			11/11/21 16:36	11/12/21 14:08	1
o-Terphenyl (Surr)	116		70 - 130			11/11/21 16:36	11/12/21 14:08	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-706 4.1

Lab Sample ID: 890-1561-4

Date Collected: 11/09/21 11:26

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	557		4.95	mg/Kg			11/21/21 16:17	1

Client Sample ID: C-707 4.1

Lab Sample ID: 890-1561-5

Date Collected: 11/09/21 11:27

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/11/21 13:02	11/18/21 02:15	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/11/21 13:02	11/18/21 02:15	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/11/21 13:02	11/18/21 02:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/11/21 13:02	11/18/21 02:15	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/11/21 13:02	11/18/21 02:15	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/11/21 13:02	11/18/21 02:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			11/11/21 13:02	11/18/21 02:15	1
1,4-Difluorobenzene (Surr)	102		70 - 130			11/11/21 13:02	11/18/21 02:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 14:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 14:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 14:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			11/11/21 16:36	11/12/21 14:30	1
o-Terphenyl (Surr)	118		70 - 130			11/11/21 16:36	11/12/21 14:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	641		4.97	mg/Kg			11/21/21 16:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-708 4.1

Lab Sample ID: 890-1561-6

Date Collected: 11/09/21 11:28

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 02:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 02:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 02:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 02:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 02:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	11/11/21 13:02	11/18/21 02:35	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/11/21 13:02	11/18/21 02:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		11/11/21 16:36	11/12/21 14:52	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		11/11/21 16:36	11/12/21 14:52	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		11/11/21 16:36	11/12/21 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	11/11/21 16:36	11/12/21 14:52	1
o-Terphenyl (Surr)	117		70 - 130	11/11/21 16:36	11/12/21 14:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	698		4.98	mg/Kg			11/21/21 16:32	1

Client Sample ID: C-709 4.1

Lab Sample ID: 890-1561-7

Date Collected: 11/09/21 11:29

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/11/21 13:02	11/18/21 02:55	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/11/21 13:02	11/18/21 02:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/11/21 13:02	11/18/21 02:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/11/21 13:02	11/18/21 02:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/11/21 13:02	11/18/21 02:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/11/21 13:02	11/18/21 02:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	11/11/21 13:02	11/18/21 02:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-709 4.1

Lab Sample ID: 890-1561-7

Date Collected: 11/09/21 11:29

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	11/11/21 13:02	11/18/21 02:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 15:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 15:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 15:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			11/11/21 16:36	11/12/21 15:14	1
o-Terphenyl (Surr)	115		70 - 130			11/11/21 16:36	11/12/21 15:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	819	F1	4.95	mg/Kg			11/21/21 16:40	1

Client Sample ID: C-710 4.1

Lab Sample ID: 890-1561-8

Date Collected: 11/09/21 11:30

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/11/21 13:02	11/18/21 03:16	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/11/21 13:02	11/18/21 03:16	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/11/21 13:02	11/18/21 03:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		11/11/21 13:02	11/18/21 03:16	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/11/21 13:02	11/18/21 03:16	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		11/11/21 13:02	11/18/21 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/11/21 13:02	11/18/21 03:16	1
1,4-Difluorobenzene (Surr)	78		70 - 130	11/11/21 13:02	11/18/21 03:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/16/21 09:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-710 4.1

Lab Sample ID: 890-1561-8

Date Collected: 11/09/21 11:30

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 15:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 15:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			11/11/21 16:36	11/12/21 15:35	1
o-Terphenyl (Surr)	117		70 - 130			11/11/21 16:36	11/12/21 15:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	843		5.04	mg/Kg			11/21/21 17:02	1

Client Sample ID: C-711 4.1

Lab Sample ID: 890-1561-9

Date Collected: 11/09/21 11:31

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 03:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 03:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 03:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/11/21 13:02	11/18/21 03:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 03:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/11/21 13:02	11/18/21 03:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			11/11/21 13:02	11/18/21 03:36	1
1,4-Difluorobenzene (Surr)	91		70 - 130			11/11/21 13:02	11/18/21 03:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 15:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 15:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 15:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			11/11/21 16:36	11/12/21 15:57	1
o-Terphenyl (Surr)	120		70 - 130			11/11/21 16:36	11/12/21 15:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-711 4.1

Lab Sample ID: 890-1561-9

Date Collected: 11/09/21 11:31

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	858		5.01	mg/Kg			11/21/21 17:09	1

Client Sample ID: C-712 4.1

Lab Sample ID: 890-1561-10

Date Collected: 11/09/21 11:32

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 03:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 03:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 03:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/11/21 13:02	11/18/21 03:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 03:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/11/21 13:02	11/18/21 03:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130			11/11/21 13:02	11/18/21 03:57	1
1,4-Difluorobenzene (Surr)	99		70 - 130			11/11/21 13:02	11/18/21 03:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 16:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 16:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 16:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			11/11/21 16:36	11/12/21 16:19	1
o-Terphenyl (Surr)	114		70 - 130			11/11/21 16:36	11/12/21 16:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	526		5.00	mg/Kg			11/21/21 17:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-713 4.1

Lab Sample ID: 890-1561-11

Date Collected: 11/09/21 11:33

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 05:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 05:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 05:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/11/21 13:02	11/18/21 05:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 05:19	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/11/21 13:02	11/18/21 05:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	11/11/21 13:02	11/18/21 05:19	1
1,4-Difluorobenzene (Surr)	103		70 - 130	11/11/21 13:02	11/18/21 05:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 17:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 17:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130	11/11/21 16:36	11/12/21 17:46	1
o-Terphenyl (Surr)	126		70 - 130	11/11/21 16:36	11/12/21 17:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1650		25.2	mg/Kg			11/21/21 17:39	5

Client Sample ID: C-714 4.1

Lab Sample ID: 890-1561-12

Date Collected: 11/09/21 11:34

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 05:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 05:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 05:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 05:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 05:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 05:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	11/11/21 13:02	11/18/21 05:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-714 4.1

Lab Sample ID: 890-1561-12

Date Collected: 11/09/21 11:34

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	11/11/21 13:02	11/18/21 05:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 18:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 18:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 18:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			11/11/21 16:36	11/12/21 18:07	1
o-Terphenyl (Surr)	113		70 - 130			11/11/21 16:36	11/12/21 18:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1720		25.1	mg/Kg			11/21/21 17:46	5

Client Sample ID: C-715 4.1

Lab Sample ID: 890-1561-13

Date Collected: 11/09/21 11:35

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 06:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 06:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 06:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/11/21 13:02	11/18/21 06:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 06:00	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/11/21 13:02	11/18/21 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	11/11/21 13:02	11/18/21 06:00	1
1,4-Difluorobenzene (Surr)	75		70 - 130	11/11/21 13:02	11/18/21 06:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/16/21 09:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-715 4.1

Lab Sample ID: 890-1561-13

Date Collected: 11/09/21 11:35

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 18:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 18:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 18:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			11/11/21 16:36	11/12/21 18:29	1
o-Terphenyl (Surr)	110		70 - 130			11/11/21 16:36	11/12/21 18:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2280		25.0	mg/Kg			11/20/21 18:55	5

Client Sample ID: C-716 4.1

Lab Sample ID: 890-1561-14

Date Collected: 11/09/21 11:36

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/11/21 13:02	11/18/21 06:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/11/21 13:02	11/18/21 06:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/11/21 13:02	11/18/21 06:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/11/21 13:02	11/18/21 06:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/11/21 13:02	11/18/21 06:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/11/21 13:02	11/18/21 06:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			11/11/21 13:02	11/18/21 06:20	1
1,4-Difluorobenzene (Surr)	81		70 - 130			11/11/21 13:02	11/18/21 06:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 18:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 18:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			11/11/21 16:36	11/12/21 18:51	1
o-Terphenyl (Surr)	110		70 - 130			11/11/21 16:36	11/12/21 18:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-716 4.1

Lab Sample ID: 890-1561-14

Date Collected: 11/09/21 11:36

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	550		4.99	mg/Kg			11/21/21 15:19	1

Client Sample ID: C-721 4.1

Lab Sample ID: 890-1561-15

Date Collected: 11/09/21 11:37

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 06:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 06:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 06:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/11/21 13:02	11/18/21 06:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 06:41	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/11/21 13:02	11/18/21 06:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			11/11/21 13:02	11/18/21 06:41	1
1,4-Difluorobenzene (Surr)	99		70 - 130			11/11/21 13:02	11/18/21 06:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 19:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 19:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 19:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			11/11/21 16:36	11/12/21 19:12	1
o-Terphenyl (Surr)	113		70 - 130			11/11/21 16:36	11/12/21 19:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	906		4.98	mg/Kg			11/21/21 15:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-722 4.1

Lab Sample ID: 890-1561-16

Date Collected: 11/09/21 11:38

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 07:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 07:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 07:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 07:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 07:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 07:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	11/11/21 13:02	11/18/21 07:01	1
1,4-Difluorobenzene (Surr)	81		70 - 130	11/11/21 13:02	11/18/21 07:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 19:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 19:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	11/11/21 16:36	11/12/21 19:33	1
o-Terphenyl (Surr)	115		70 - 130	11/11/21 16:36	11/12/21 19:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	787		4.95	mg/Kg			11/21/21 15:33	1

Client Sample ID: C-748 4.1

Lab Sample ID: 890-1561-17

Date Collected: 11/09/21 11:39

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 07:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 07:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 07:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/11/21 13:02	11/18/21 07:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 07:21	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/11/21 13:02	11/18/21 07:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	11/11/21 13:02	11/18/21 07:21	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-748 4.1

Lab Sample ID: 890-1561-17

Date Collected: 11/09/21 11:39

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130	11/11/21 13:02	11/18/21 07:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 19:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 19:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 19:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			11/11/21 16:36	11/12/21 19:55	1
o-Terphenyl (Surr)	119		70 - 130			11/11/21 16:36	11/12/21 19:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1380		4.98	mg/Kg			11/20/21 16:35	1

Client Sample ID: C-883 4.1

Lab Sample ID: 890-1561-18

Date Collected: 11/09/21 12:43

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 07:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 07:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 07:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 07:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 07:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 07:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	11/11/21 13:02	11/18/21 07:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/11/21 13:02	11/18/21 07:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/16/21 09:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-883 4.1

Lab Sample ID: 890-1561-18

Date Collected: 11/09/21 12:43

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 20:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 20:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 20:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			11/11/21 16:36	11/12/21 20:16	1
o-Terphenyl (Surr)	114		70 - 130			11/11/21 16:36	11/12/21 20:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	647		4.95	mg/Kg			11/20/21 16:45	1

Client Sample ID: C-885 4.1

Lab Sample ID: 890-1561-19

Date Collected: 11/09/21 12:44

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 08:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 08:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 08:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 08:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/11/21 13:02	11/18/21 08:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/11/21 13:02	11/18/21 08:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			11/11/21 13:02	11/18/21 08:02	1
1,4-Difluorobenzene (Surr)	105		70 - 130			11/11/21 13:02	11/18/21 08:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 20:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 20:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/11/21 16:36	11/12/21 20:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			11/11/21 16:36	11/12/21 20:38	1
o-Terphenyl (Surr)	110		70 - 130			11/11/21 16:36	11/12/21 20:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-885 4.1

Lab Sample ID: 890-1561-19

Date Collected: 11/09/21 12:44

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	392		4.99	mg/Kg			11/20/21 16:56	1

Client Sample ID: C-894 4.1

Lab Sample ID: 890-1561-20

Date Collected: 11/09/21 12:45

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/11/21 13:02	11/18/21 08:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/11/21 13:02	11/18/21 08:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/11/21 13:02	11/18/21 08:23	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		11/11/21 13:02	11/18/21 08:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/11/21 13:02	11/18/21 08:23	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		11/11/21 13:02	11/18/21 08:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			11/11/21 13:02	11/18/21 08:23	1
1,4-Difluorobenzene (Surr)	103		70 - 130			11/11/21 13:02	11/18/21 08:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 21:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 21:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/11/21 16:36	11/12/21 21:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			11/11/21 16:36	11/12/21 21:00	1
o-Terphenyl (Surr)	112		70 - 130			11/11/21 16:36	11/12/21 21:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	488		5.04	mg/Kg			11/20/21 17:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-897 4.1

Lab Sample ID: 890-1561-21

Date Collected: 11/09/21 12:46

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/15/21 08:07	11/15/21 14:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/15/21 08:07	11/15/21 14:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/15/21 08:07	11/15/21 14:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/15/21 08:07	11/15/21 14:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/15/21 08:07	11/15/21 14:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/15/21 08:07	11/15/21 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/15/21 08:07	11/15/21 14:55	1
1,4-Difluorobenzene (Surr)	107		70 - 130	11/15/21 08:07	11/15/21 14:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/12/21 08:58	11/12/21 22:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/12/21 08:58	11/12/21 22:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/12/21 08:58	11/12/21 22:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	11/12/21 08:58	11/12/21 22:52	1
o-Terphenyl (Surr)	112		70 - 130	11/12/21 08:58	11/12/21 22:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	227		5.00	mg/Kg			11/20/21 17:38	1

Client Sample ID: C-898 4.1

Lab Sample ID: 890-1561-22

Date Collected: 11/09/21 12:47

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:07	11/15/21 15:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:07	11/15/21 15:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:07	11/15/21 15:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/15/21 08:07	11/15/21 15:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:07	11/15/21 15:15	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/15/21 08:07	11/15/21 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	11/15/21 08:07	11/15/21 15:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-898 4.1

Lab Sample ID: 890-1561-22

Date Collected: 11/09/21 12:47

Matrix: Solid

Date Received: 11/10/21 15:04

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	11/15/21 08:07	11/15/21 15:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/12/21 08:58	11/12/21 23:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/12/21 08:58	11/12/21 23:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/12/21 08:58	11/12/21 23:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			11/12/21 08:58	11/12/21 23:59	1
o-Terphenyl (Surr)	116		70 - 130			11/12/21 08:58	11/12/21 23:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	536		4.95	mg/Kg			11/20/21 17:48	1

Client Sample ID: C-908

Lab Sample ID: 890-1561-23

Date Collected: 11/09/21 12:48

Matrix: Solid

Date Received: 11/10/21 15:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/15/21 08:15	11/15/21 23:05	1
Toluene	0.00294	F1	0.00199	mg/Kg		11/15/21 08:15	11/15/21 23:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/15/21 08:15	11/15/21 23:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/15/21 08:15	11/15/21 23:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/15/21 08:15	11/15/21 23:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/15/21 08:15	11/15/21 23:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			11/15/21 08:15	11/15/21 23:05	1
1,4-Difluorobenzene (Surr)	103		70 - 130			11/15/21 08:15	11/15/21 23:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/16/21 09:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-908

Lab Sample ID: 890-1561-23

Date Collected: 11/09/21 12:48

Matrix: Solid

Date Received: 11/10/21 15:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/12/21 08:58	11/13/21 00:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/12/21 08:58	11/13/21 00:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/12/21 08:58	11/13/21 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	11/12/21 08:58	11/13/21 00:22	1
o-Terphenyl (Surr)	116		70 - 130	11/12/21 08:58	11/13/21 00:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.6		4.97	mg/Kg			11/20/21 17:58	1

Client Sample ID: C-910

Lab Sample ID: 890-1561-24

Date Collected: 11/09/21 12:49

Matrix: Solid

Date Received: 11/10/21 15:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/15/21 08:15	11/15/21 23:25	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/15/21 08:15	11/15/21 23:25	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/15/21 08:15	11/15/21 23:25	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/15/21 08:15	11/15/21 23:25	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/15/21 08:15	11/15/21 23:25	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/15/21 08:15	11/15/21 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/15/21 08:15	11/15/21 23:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/15/21 08:15	11/15/21 23:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/16/21 09:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/12/21 08:58	11/13/21 00:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/12/21 08:58	11/13/21 00:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/12/21 08:58	11/13/21 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	11/12/21 08:58	11/13/21 00:44	1
o-Terphenyl (Surr)	116		70 - 130	11/12/21 08:58	11/13/21 00:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-910
Date Collected: 11/09/21 12:49
Date Received: 11/10/21 15:04

Lab Sample ID: 890-1561-24
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	349		4.98	mg/Kg			11/20/21 18:09	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1561-1	C-703 4.1	122	75
890-1561-1 MS	C-703 4.1	123	97
890-1561-1 MSD	C-703 4.1	130	87
890-1561-2	C-704 4.1	135 S1+	97
890-1561-3	C-705 4.1	132 S1+	78
890-1561-4	C-706 4.1	125	89
890-1561-5	C-707 4.1	121	102
890-1561-6	C-708 4.1	135 S1+	97
890-1561-7	C-709 4.1	139 S1+	99
890-1561-8	C-710 4.1	112	78
890-1561-9	C-711 4.1	132 S1+	91
890-1561-10	C-712 4.1	141 S1+	99
890-1561-11	C-713 4.1	108	103
890-1561-12	C-714 4.1	102	100
890-1561-13	C-715 4.1	113	75
890-1561-14	C-716 4.1	122	81
890-1561-15	C-721 4.1	112	99
890-1561-16	C-722 4.1	119	81
890-1561-17	C-748 4.1	106	109
890-1561-18	C-883 4.1	132 S1+	104
890-1561-19	C-885 4.1	113	105
890-1561-20	C-894 4.1	107	103
890-1561-21	C-897 4.1	112	107
890-1561-22	C-898 4.1	133 S1+	98
890-1561-23	C-908	122	103
890-1561-23 MS	C-908	119	105
890-1561-23 MSD	C-908	120	99
890-1561-24	C-910	116	97
LCS 880-12025/1-A	Lab Control Sample	108	102
LCS 880-12026/1-A	Lab Control Sample	113	103
LCS 880-12215/1-A	Lab Control Sample	110	109
LCSD 880-12025/2-A	Lab Control Sample Dup	109	92
LCSD 880-12026/2-A	Lab Control Sample Dup	125	108
LCSD 880-12215/2-A	Lab Control Sample Dup	115	107
MB 880-12025/5-A	Method Blank	120	94
MB 880-12026/5-A	Method Blank	117	101
MB 880-12215/5-A	Method Blank	113	93
MB 880-12348/5-A	Method Blank	129	109

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-1561-1	C-703 4.1	99	116

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1561-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1561-1 MS	C-703 4.1	96	99
890-1561-1 MSD	C-703 4.1	96	101
890-1561-2	C-704 4.1	105	121
890-1561-3	C-705 4.1	101	116
890-1561-4	C-706 4.1	101	116
890-1561-5	C-707 4.1	105	118
890-1561-6	C-708 4.1	102	117
890-1561-7	C-709 4.1	100	115
890-1561-8	C-710 4.1	102	117
890-1561-9	C-711 4.1	104	120
890-1561-10	C-712 4.1	99	114
890-1561-11	C-713 4.1	115	126
890-1561-12	C-714 4.1	101	113
890-1561-13	C-715 4.1	98	110
890-1561-14	C-716 4.1	98	110
890-1561-15	C-721 4.1	102	113
890-1561-16	C-722 4.1	102	115
890-1561-17	C-748 4.1	104	119
890-1561-18	C-883 4.1	100	114
890-1561-19	C-885 4.1	97	110
890-1561-20	C-894 4.1	97	112
890-1561-21	C-897 4.1	100	112
890-1561-21 MS	C-897 4.1	97	111
890-1561-21 MSD	C-897 4.1	94	107
890-1561-22	C-898 4.1	104	116
890-1561-23	C-908	100	116
890-1561-24	C-910	102	116
LCS 880-12050/2-A	Lab Control Sample	83	96
LCS 880-12101/2-A	Lab Control Sample	86	97
LCSD 880-12050/3-A	Lab Control Sample Dup	88	102
LCSD 880-12101/3-A	Lab Control Sample Dup	84	102
MB 880-12050/1-A	Method Blank	107	133 S1+
MB 880-12101/1-A	Method Blank	104	117

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12025/5-A

Matrix: Solid

Analysis Batch: 12497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12025

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 00:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 00:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 00:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/11/21 13:02	11/18/21 00:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/11/21 13:02	11/18/21 00:31	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/11/21 13:02	11/18/21 00:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/11/21 13:02	11/18/21 00:31	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/11/21 13:02	11/18/21 00:31	1

Lab Sample ID: LCS 880-12025/1-A

Matrix: Solid

Analysis Batch: 12497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08012		mg/Kg		80	70 - 130
Toluene	0.100	0.07832		mg/Kg		78	70 - 130
Ethylbenzene	0.100	0.08041		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1650		mg/Kg		82	70 - 130
o-Xylene	0.100	0.08543		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-12025/2-A

Matrix: Solid

Analysis Batch: 12497

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12025

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07369		mg/Kg		74	70 - 130	8	35
Toluene	0.100	0.07591		mg/Kg		76	70 - 130	3	35
Ethylbenzene	0.100	0.08006		mg/Kg		80	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1687		mg/Kg		84	70 - 130	2	35
o-Xylene	0.100	0.08511		mg/Kg		85	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-1561-1 MS

Matrix: Solid

Analysis Batch: 12497

Client Sample ID: C-703 4.1

Prep Type: Total/NA

Prep Batch: 12025

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.101	0.05638	F1	mg/Kg		56	70 - 130
Toluene	<0.00198	U F1	0.101	0.06654	F1	mg/Kg		66	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1561-1 MS

Matrix: Solid

Analysis Batch: 12497

Client Sample ID: C-703 4.1

Prep Type: Total/NA

Prep Batch: 12025

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U F1	0.101	0.07059		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.202	0.1514		mg/Kg		75	70 - 130
o-Xylene	<0.00198	U	0.101	0.07518		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1561-1 MSD

Matrix: Solid

Analysis Batch: 12497

Client Sample ID: C-703 4.1

Prep Type: Total/NA

Prep Batch: 12025

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00198	U F1	0.0992	0.04097	F1	mg/Kg		41	70 - 130	32	35
Toluene	<0.00198	U F1	0.0992	0.05031	F1	mg/Kg		51	70 - 130	28	35
Ethylbenzene	<0.00198	U F1	0.0992	0.05882	F1	mg/Kg		59	70 - 130	18	35
m-Xylene & p-Xylene	<0.00397	U F1	0.198	0.1271	F1	mg/Kg		64	70 - 130	17	35
o-Xylene	<0.00198	U	0.0992	0.07034		mg/Kg		70	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-12026/5-A

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12026

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:15	11/15/21 22:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:15	11/15/21 22:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:15	11/15/21 22:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/15/21 08:15	11/15/21 22:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:15	11/15/21 22:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/15/21 08:15	11/15/21 22:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	11/15/21 08:15	11/15/21 22:43	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/15/21 08:15	11/15/21 22:43	1

Lab Sample ID: LCS 880-12026/1-A

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1028		mg/Kg		103	70 - 130
Toluene	0.100	0.09203		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09055		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1920		mg/Kg		96	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-12026/1-A

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.09593		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-12026/2-A

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12026

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1043		mg/Kg		104	70 - 130	1	35
Toluene	0.100	0.09372		mg/Kg		94	70 - 130	2	35
Ethylbenzene	0.100	0.09504		mg/Kg		95	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1983		mg/Kg		99	70 - 130	3	35
o-Xylene	0.100	0.09931		mg/Kg		99	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-1561-23 MS

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: C-908

Prep Type: Total/NA

Prep Batch: 12026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.101	0.07911		mg/Kg		77	70 - 130
Toluene	0.00294	F1	0.101	0.07313		mg/Kg		70	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.07134		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1507		mg/Kg		75	70 - 130
o-Xylene	<0.00199	U	0.101	0.07438		mg/Kg		73	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-1561-23 MSD

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: C-908

Prep Type: Total/NA

Prep Batch: 12026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U	0.0996	0.07143		mg/Kg		70	70 - 130	10	35
Toluene	0.00294	F1	0.0996	0.06778	F1	mg/Kg		65	70 - 130	8	35
Ethylbenzene	<0.00199	U	0.0996	0.07027		mg/Kg		71	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1478		mg/Kg		74	70 - 130	2	35
o-Xylene	<0.00199	U	0.0996	0.07266		mg/Kg		72	70 - 130	2	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1561-23 MSD

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: C-908

Prep Type: Total/NA

Prep Batch: 12026

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-12215/5-A

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12215

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:07	11/15/21 11:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:07	11/15/21 11:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:07	11/15/21 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/15/21 08:07	11/15/21 11:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:07	11/15/21 11:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/15/21 08:07	11/15/21 11:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	11/15/21 08:07	11/15/21 11:50	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/15/21 08:07	11/15/21 11:50	1

Lab Sample ID: LCS 880-12215/1-A

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09556		mg/Kg		96	70 - 130
Toluene	0.100	0.08289		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08441		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1784		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08696		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-12215/2-A

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12215

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09851		mg/Kg		99	70 - 130	3	35
Toluene	0.100	0.08964		mg/Kg		90	70 - 130	8	35
Ethylbenzene	0.100	0.09120		mg/Kg		91	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1935		mg/Kg		97	70 - 130	8	35
o-Xylene	0.100	0.09564		mg/Kg		96	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-12215/2-A

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12215

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-12348/5-A

Matrix: Solid

Analysis Batch: 12497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12348

Analyte	MB	MB						
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/16/21 15:46	11/17/21 12:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/16/21 15:46	11/17/21 12:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/16/21 15:46	11/17/21 12:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/16/21 15:46	11/17/21 12:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/16/21 15:46	11/17/21 12:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/16/21 15:46	11/17/21 12:27	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	129		70 - 130	11/16/21 15:46	11/17/21 12:27	1		
1,4-Difluorobenzene (Surr)	109		70 - 130	11/16/21 15:46	11/17/21 12:27	1		

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12050/1-A

Matrix: Solid

Analysis Batch: 12088

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12050

Analyte	MB	MB						
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 11:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 11:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/11/21 16:36	11/12/21 11:16	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	107		70 - 130	11/11/21 16:36	11/12/21 11:16	1		
o-Terphenyl (Surr)	133	S1+	70 - 130	11/11/21 16:36	11/12/21 11:16	1		

Lab Sample ID: LCS 880-12050/2-A

Matrix: Solid

Analysis Batch: 12088

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	735.2		mg/Kg		74	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	881.9		mg/Kg		88	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	83		70 - 130
o-Terphenyl (Surr)	96		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-12050/3-A

Matrix: Solid

Analysis Batch: 12088

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12050

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	835.6		mg/Kg		84	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	963.7		mg/Kg		96	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	88		70 - 130						
o-Terphenyl (Surr)	102		70 - 130						

Lab Sample ID: 890-1561-1 MS

Matrix: Solid

Analysis Batch: 12088

Client Sample ID: C-703 4.1

Prep Type: Total/NA

Prep Batch: 12050

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	916.0		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	768.9		mg/Kg		75	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	96		70 - 130								
o-Terphenyl (Surr)	99		70 - 130								

Lab Sample ID: 890-1561-1 MSD

Matrix: Solid

Analysis Batch: 12088

Client Sample ID: C-703 4.1

Prep Type: Total/NA

Prep Batch: 12050

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	947.2		mg/Kg		95	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	775.0		mg/Kg		76	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	96		70 - 130								
o-Terphenyl (Surr)	101		70 - 130								

Lab Sample ID: MB 880-12101/1-A

Matrix: Solid

Analysis Batch: 12088

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12101

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/12/21 08:58	11/12/21 21:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/12/21 08:58	11/12/21 21:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/12/21 08:58	11/12/21 21:45	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-12101/1-A

Matrix: Solid

Analysis Batch: 12088

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12101

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	11/12/21 08:58	11/12/21 21:45	1
o-Terphenyl (Surr)	117		70 - 130	11/12/21 08:58	11/12/21 21:45	1

Lab Sample ID: LCS 880-12101/2-A

Matrix: Solid

Analysis Batch: 12088

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	792.1		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	1000	918.5		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	86		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-12101/3-A

Matrix: Solid

Analysis Batch: 12088

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12101

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	811.1		mg/Kg		81	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	903.7		mg/Kg		90	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	84		70 - 130
o-Terphenyl (Surr)	102		70 - 130

Lab Sample ID: 890-1561-21 MS

Matrix: Solid

Analysis Batch: 12088

Client Sample ID: C-897 4.1

Prep Type: Total/NA

Prep Batch: 12101

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	925.5		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	809.9		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	97		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1561-21 MSD

Matrix: Solid

Analysis Batch: 12088

Client Sample ID: C-897 4.1

Prep Type: Total/NA

Prep Batch: 12101

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	878.2		mg/Kg		88	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	789.4		mg/Kg		79	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	94		70 - 130								
o-Terphenyl (Surr)	107		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12272/1-A

Matrix: Solid

Analysis Batch: 12842

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/20/21 18:33	1

Lab Sample ID: LCS 880-12272/2-A

Matrix: Solid

Analysis Batch: 12842

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	253.7		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-12272/3-A

Matrix: Solid

Analysis Batch: 12842

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	253.4		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1561-7 MS

Matrix: Solid

Analysis Batch: 12842

Client Sample ID: C-709 4.1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	819	F1	248	1038	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-1561-7 MSD

Matrix: Solid

Analysis Batch: 12842

Client Sample ID: C-709 4.1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	819	F1	248	1034	F1	mg/Kg		87	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1561-13 MS

Matrix: Solid

Analysis Batch: 12842

Client Sample ID: C-715 4.1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2280		1250	3540		mg/Kg		101	90 - 110

Lab Sample ID: 890-1561-13 MSD

Matrix: Solid

Analysis Batch: 12842

Client Sample ID: C-715 4.1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2280		1250	3541		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-12273/1-A

Matrix: Solid

Analysis Batch: 12843

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/20/21 14:25	1

Lab Sample ID: LCS 880-12273/2-A

Matrix: Solid

Analysis Batch: 12843

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	243.5		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-12273/3-A

Matrix: Solid

Analysis Batch: 12843

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	244.4		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-8242-A-6-F MS

Matrix: Solid

Analysis Batch: 12843

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	47.0		250	289.7		mg/Kg		97	90 - 110

Lab Sample ID: 880-8242-A-6-G MSD

Matrix: Solid

Analysis Batch: 12843

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	47.0		250	296.9		mg/Kg		100	90 - 110	2	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

GC VOA

Prep Batch: 12025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-1	C-703 4.1	Total/NA	Solid	5035	
890-1561-2	C-704 4.1	Total/NA	Solid	5035	
890-1561-3	C-705 4.1	Total/NA	Solid	5035	
890-1561-4	C-706 4.1	Total/NA	Solid	5035	
890-1561-5	C-707 4.1	Total/NA	Solid	5035	
890-1561-6	C-708 4.1	Total/NA	Solid	5035	
890-1561-7	C-709 4.1	Total/NA	Solid	5035	
890-1561-8	C-710 4.1	Total/NA	Solid	5035	
890-1561-9	C-711 4.1	Total/NA	Solid	5035	
890-1561-10	C-712 4.1	Total/NA	Solid	5035	
890-1561-11	C-713 4.1	Total/NA	Solid	5035	
890-1561-12	C-714 4.1	Total/NA	Solid	5035	
890-1561-13	C-715 4.1	Total/NA	Solid	5035	
890-1561-14	C-716 4.1	Total/NA	Solid	5035	
890-1561-15	C-721 4.1	Total/NA	Solid	5035	
890-1561-16	C-722 4.1	Total/NA	Solid	5035	
890-1561-17	C-748 4.1	Total/NA	Solid	5035	
890-1561-18	C-883 4.1	Total/NA	Solid	5035	
890-1561-19	C-885 4.1	Total/NA	Solid	5035	
890-1561-20	C-894 4.1	Total/NA	Solid	5035	
MB 880-12025/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12025/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12025/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1561-1 MS	C-703 4.1	Total/NA	Solid	5035	
890-1561-1 MSD	C-703 4.1	Total/NA	Solid	5035	

Prep Batch: 12026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-23	C-908	Total/NA	Solid	5035	
890-1561-24	C-910	Total/NA	Solid	5035	
MB 880-12026/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12026/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12026/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1561-23 MS	C-908	Total/NA	Solid	5035	
890-1561-23 MSD	C-908	Total/NA	Solid	5035	

Prep Batch: 12215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-21	C-897 4.1	Total/NA	Solid	5035	
890-1561-22	C-898 4.1	Total/NA	Solid	5035	
MB 880-12215/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12215/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12215/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 12219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-21	C-897 4.1	Total/NA	Solid	8021B	12215
890-1561-22	C-898 4.1	Total/NA	Solid	8021B	12215
890-1561-23	C-908	Total/NA	Solid	8021B	12026
890-1561-24	C-910	Total/NA	Solid	8021B	12026
MB 880-12026/5-A	Method Blank	Total/NA	Solid	8021B	12026

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 12219 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12215/5-A	Method Blank	Total/NA	Solid	8021B	12215
LCS 880-12026/1-A	Lab Control Sample	Total/NA	Solid	8021B	12026
LCS 880-12215/1-A	Lab Control Sample	Total/NA	Solid	8021B	12215
LCSD 880-12026/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12026
LCSD 880-12215/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12215
890-1561-23 MS	C-908	Total/NA	Solid	8021B	12026
890-1561-23 MSD	C-908	Total/NA	Solid	8021B	12026

Prep Batch: 12348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12348/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 12497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-1	C-703 4.1	Total/NA	Solid	8021B	12025
890-1561-2	C-704 4.1	Total/NA	Solid	8021B	12025
890-1561-3	C-705 4.1	Total/NA	Solid	8021B	12025
890-1561-4	C-706 4.1	Total/NA	Solid	8021B	12025
890-1561-5	C-707 4.1	Total/NA	Solid	8021B	12025
890-1561-6	C-708 4.1	Total/NA	Solid	8021B	12025
890-1561-7	C-709 4.1	Total/NA	Solid	8021B	12025
890-1561-8	C-710 4.1	Total/NA	Solid	8021B	12025
890-1561-9	C-711 4.1	Total/NA	Solid	8021B	12025
890-1561-10	C-712 4.1	Total/NA	Solid	8021B	12025
890-1561-11	C-713 4.1	Total/NA	Solid	8021B	12025
890-1561-12	C-714 4.1	Total/NA	Solid	8021B	12025
890-1561-13	C-715 4.1	Total/NA	Solid	8021B	12025
890-1561-14	C-716 4.1	Total/NA	Solid	8021B	12025
890-1561-15	C-721 4.1	Total/NA	Solid	8021B	12025
890-1561-16	C-722 4.1	Total/NA	Solid	8021B	12025
890-1561-17	C-748 4.1	Total/NA	Solid	8021B	12025
890-1561-18	C-883 4.1	Total/NA	Solid	8021B	12025
890-1561-19	C-885 4.1	Total/NA	Solid	8021B	12025
890-1561-20	C-894 4.1	Total/NA	Solid	8021B	12025
MB 880-12025/5-A	Method Blank	Total/NA	Solid	8021B	12025
MB 880-12348/5-A	Method Blank	Total/NA	Solid	8021B	12348
LCS 880-12025/1-A	Lab Control Sample	Total/NA	Solid	8021B	12025
LCSD 880-12025/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12025
890-1561-1 MS	C-703 4.1	Total/NA	Solid	8021B	12025
890-1561-1 MSD	C-703 4.1	Total/NA	Solid	8021B	12025

Analysis Batch: 12945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-1	C-703 4.1	Total/NA	Solid	Total BTEX	
890-1561-2	C-704 4.1	Total/NA	Solid	Total BTEX	
890-1561-3	C-705 4.1	Total/NA	Solid	Total BTEX	
890-1561-4	C-706 4.1	Total/NA	Solid	Total BTEX	
890-1561-5	C-707 4.1	Total/NA	Solid	Total BTEX	
890-1561-6	C-708 4.1	Total/NA	Solid	Total BTEX	
890-1561-7	C-709 4.1	Total/NA	Solid	Total BTEX	
890-1561-8	C-710 4.1	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 12945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-9	C-711 4.1	Total/NA	Solid	Total BTEX	
890-1561-10	C-712 4.1	Total/NA	Solid	Total BTEX	
890-1561-11	C-713 4.1	Total/NA	Solid	Total BTEX	
890-1561-12	C-714 4.1	Total/NA	Solid	Total BTEX	
890-1561-13	C-715 4.1	Total/NA	Solid	Total BTEX	
890-1561-14	C-716 4.1	Total/NA	Solid	Total BTEX	
890-1561-15	C-721 4.1	Total/NA	Solid	Total BTEX	
890-1561-16	C-722 4.1	Total/NA	Solid	Total BTEX	
890-1561-17	C-748 4.1	Total/NA	Solid	Total BTEX	
890-1561-18	C-883 4.1	Total/NA	Solid	Total BTEX	
890-1561-19	C-885 4.1	Total/NA	Solid	Total BTEX	
890-1561-20	C-894 4.1	Total/NA	Solid	Total BTEX	
890-1561-21	C-897 4.1	Total/NA	Solid	Total BTEX	
890-1561-22	C-898 4.1	Total/NA	Solid	Total BTEX	
890-1561-23	C-908	Total/NA	Solid	Total BTEX	
890-1561-24	C-910	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 12050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-1	C-703 4.1	Total/NA	Solid	8015NM Prep	
890-1561-2	C-704 4.1	Total/NA	Solid	8015NM Prep	
890-1561-3	C-705 4.1	Total/NA	Solid	8015NM Prep	
890-1561-4	C-706 4.1	Total/NA	Solid	8015NM Prep	
890-1561-5	C-707 4.1	Total/NA	Solid	8015NM Prep	
890-1561-6	C-708 4.1	Total/NA	Solid	8015NM Prep	
890-1561-7	C-709 4.1	Total/NA	Solid	8015NM Prep	
890-1561-8	C-710 4.1	Total/NA	Solid	8015NM Prep	
890-1561-9	C-711 4.1	Total/NA	Solid	8015NM Prep	
890-1561-10	C-712 4.1	Total/NA	Solid	8015NM Prep	
890-1561-11	C-713 4.1	Total/NA	Solid	8015NM Prep	
890-1561-12	C-714 4.1	Total/NA	Solid	8015NM Prep	
890-1561-13	C-715 4.1	Total/NA	Solid	8015NM Prep	
890-1561-14	C-716 4.1	Total/NA	Solid	8015NM Prep	
890-1561-15	C-721 4.1	Total/NA	Solid	8015NM Prep	
890-1561-16	C-722 4.1	Total/NA	Solid	8015NM Prep	
890-1561-17	C-748 4.1	Total/NA	Solid	8015NM Prep	
890-1561-18	C-883 4.1	Total/NA	Solid	8015NM Prep	
890-1561-19	C-885 4.1	Total/NA	Solid	8015NM Prep	
890-1561-20	C-894 4.1	Total/NA	Solid	8015NM Prep	
MB 880-12050/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12050/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12050/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1561-1 MS	C-703 4.1	Total/NA	Solid	8015NM Prep	
890-1561-1 MSD	C-703 4.1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-1	C-703 4.1	Total/NA	Solid	8015B NM	12050
890-1561-2	C-704 4.1	Total/NA	Solid	8015B NM	12050

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 12088 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-3	C-705 4.1	Total/NA	Solid	8015B NM	12050
890-1561-4	C-706 4.1	Total/NA	Solid	8015B NM	12050
890-1561-5	C-707 4.1	Total/NA	Solid	8015B NM	12050
890-1561-6	C-708 4.1	Total/NA	Solid	8015B NM	12050
890-1561-7	C-709 4.1	Total/NA	Solid	8015B NM	12050
890-1561-8	C-710 4.1	Total/NA	Solid	8015B NM	12050
890-1561-9	C-711 4.1	Total/NA	Solid	8015B NM	12050
890-1561-10	C-712 4.1	Total/NA	Solid	8015B NM	12050
890-1561-11	C-713 4.1	Total/NA	Solid	8015B NM	12050
890-1561-12	C-714 4.1	Total/NA	Solid	8015B NM	12050
890-1561-13	C-715 4.1	Total/NA	Solid	8015B NM	12050
890-1561-14	C-716 4.1	Total/NA	Solid	8015B NM	12050
890-1561-15	C-721 4.1	Total/NA	Solid	8015B NM	12050
890-1561-16	C-722 4.1	Total/NA	Solid	8015B NM	12050
890-1561-17	C-748 4.1	Total/NA	Solid	8015B NM	12050
890-1561-18	C-883 4.1	Total/NA	Solid	8015B NM	12050
890-1561-19	C-885 4.1	Total/NA	Solid	8015B NM	12050
890-1561-20	C-894 4.1	Total/NA	Solid	8015B NM	12050
890-1561-21	C-897 4.1	Total/NA	Solid	8015B NM	12101
890-1561-22	C-898 4.1	Total/NA	Solid	8015B NM	12101
890-1561-23	C-908	Total/NA	Solid	8015B NM	12101
890-1561-24	C-910	Total/NA	Solid	8015B NM	12101
MB 880-12050/1-A	Method Blank	Total/NA	Solid	8015B NM	12050
MB 880-12101/1-A	Method Blank	Total/NA	Solid	8015B NM	12101
LCS 880-12050/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12050
LCS 880-12101/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12101
LCSD 880-12050/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12050
LCSD 880-12101/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12101
890-1561-1 MS	C-703 4.1	Total/NA	Solid	8015B NM	12050
890-1561-1 MSD	C-703 4.1	Total/NA	Solid	8015B NM	12050
890-1561-21 MS	C-897 4.1	Total/NA	Solid	8015B NM	12101
890-1561-21 MSD	C-897 4.1	Total/NA	Solid	8015B NM	12101

Prep Batch: 12101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-21	C-897 4.1	Total/NA	Solid	8015NM Prep	
890-1561-22	C-898 4.1	Total/NA	Solid	8015NM Prep	
890-1561-23	C-908	Total/NA	Solid	8015NM Prep	
890-1561-24	C-910	Total/NA	Solid	8015NM Prep	
MB 880-12101/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12101/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12101/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1561-21 MS	C-897 4.1	Total/NA	Solid	8015NM Prep	
890-1561-21 MSD	C-897 4.1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-1	C-703 4.1	Total/NA	Solid	8015 NM	
890-1561-2	C-704 4.1	Total/NA	Solid	8015 NM	
890-1561-3	C-705 4.1	Total/NA	Solid	8015 NM	
890-1561-4	C-706 4.1	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 12429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-5	C-707 4.1	Total/NA	Solid	8015 NM	
890-1561-6	C-708 4.1	Total/NA	Solid	8015 NM	
890-1561-7	C-709 4.1	Total/NA	Solid	8015 NM	
890-1561-8	C-710 4.1	Total/NA	Solid	8015 NM	
890-1561-9	C-711 4.1	Total/NA	Solid	8015 NM	
890-1561-10	C-712 4.1	Total/NA	Solid	8015 NM	
890-1561-11	C-713 4.1	Total/NA	Solid	8015 NM	
890-1561-12	C-714 4.1	Total/NA	Solid	8015 NM	
890-1561-13	C-715 4.1	Total/NA	Solid	8015 NM	
890-1561-14	C-716 4.1	Total/NA	Solid	8015 NM	
890-1561-15	C-721 4.1	Total/NA	Solid	8015 NM	
890-1561-16	C-722 4.1	Total/NA	Solid	8015 NM	
890-1561-17	C-748 4.1	Total/NA	Solid	8015 NM	
890-1561-18	C-883 4.1	Total/NA	Solid	8015 NM	
890-1561-19	C-885 4.1	Total/NA	Solid	8015 NM	
890-1561-20	C-894 4.1	Total/NA	Solid	8015 NM	
890-1561-21	C-897 4.1	Total/NA	Solid	8015 NM	
890-1561-22	C-898 4.1	Total/NA	Solid	8015 NM	
890-1561-23	C-908	Total/NA	Solid	8015 NM	
890-1561-24	C-910	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 12272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-1	C-703 4.1	Soluble	Solid	DI Leach	
890-1561-2	C-704 4.1	Soluble	Solid	DI Leach	
890-1561-3	C-705 4.1	Soluble	Solid	DI Leach	
890-1561-4	C-706 4.1	Soluble	Solid	DI Leach	
890-1561-5	C-707 4.1	Soluble	Solid	DI Leach	
890-1561-6	C-708 4.1	Soluble	Solid	DI Leach	
890-1561-7	C-709 4.1	Soluble	Solid	DI Leach	
890-1561-8	C-710 4.1	Soluble	Solid	DI Leach	
890-1561-9	C-711 4.1	Soluble	Solid	DI Leach	
890-1561-10	C-712 4.1	Soluble	Solid	DI Leach	
890-1561-11	C-713 4.1	Soluble	Solid	DI Leach	
890-1561-12	C-714 4.1	Soluble	Solid	DI Leach	
890-1561-13	C-715 4.1	Soluble	Solid	DI Leach	
890-1561-14	C-716 4.1	Soluble	Solid	DI Leach	
890-1561-15	C-721 4.1	Soluble	Solid	DI Leach	
890-1561-16	C-722 4.1	Soluble	Solid	DI Leach	
MB 880-12272/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12272/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12272/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1561-7 MS	C-709 4.1	Soluble	Solid	DI Leach	
890-1561-7 MSD	C-709 4.1	Soluble	Solid	DI Leach	
890-1561-13 MS	C-715 4.1	Soluble	Solid	DI Leach	
890-1561-13 MSD	C-715 4.1	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 12273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-17	C-748 4.1	Soluble	Solid	DI Leach	
890-1561-18	C-883 4.1	Soluble	Solid	DI Leach	
890-1561-19	C-885 4.1	Soluble	Solid	DI Leach	
890-1561-20	C-894 4.1	Soluble	Solid	DI Leach	
890-1561-21	C-897 4.1	Soluble	Solid	DI Leach	
890-1561-22	C-898 4.1	Soluble	Solid	DI Leach	
890-1561-23	C-908	Soluble	Solid	DI Leach	
890-1561-24	C-910	Soluble	Solid	DI Leach	
MB 880-12273/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12273/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12273/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8242-A-6-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8242-A-6-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 12842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-1	C-703 4.1	Soluble	Solid	300.0	12272
890-1561-2	C-704 4.1	Soluble	Solid	300.0	12272
890-1561-3	C-705 4.1	Soluble	Solid	300.0	12272
890-1561-4	C-706 4.1	Soluble	Solid	300.0	12272
890-1561-5	C-707 4.1	Soluble	Solid	300.0	12272
890-1561-6	C-708 4.1	Soluble	Solid	300.0	12272
890-1561-7	C-709 4.1	Soluble	Solid	300.0	12272
890-1561-8	C-710 4.1	Soluble	Solid	300.0	12272
890-1561-9	C-711 4.1	Soluble	Solid	300.0	12272
890-1561-10	C-712 4.1	Soluble	Solid	300.0	12272
890-1561-11	C-713 4.1	Soluble	Solid	300.0	12272
890-1561-12	C-714 4.1	Soluble	Solid	300.0	12272
890-1561-13	C-715 4.1	Soluble	Solid	300.0	12272
890-1561-14	C-716 4.1	Soluble	Solid	300.0	12272
890-1561-15	C-721 4.1	Soluble	Solid	300.0	12272
890-1561-16	C-722 4.1	Soluble	Solid	300.0	12272
MB 880-12272/1-A	Method Blank	Soluble	Solid	300.0	12272
LCS 880-12272/2-A	Lab Control Sample	Soluble	Solid	300.0	12272
LCSD 880-12272/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12272
890-1561-7 MS	C-709 4.1	Soluble	Solid	300.0	12272
890-1561-7 MSD	C-709 4.1	Soluble	Solid	300.0	12272
890-1561-13 MS	C-715 4.1	Soluble	Solid	300.0	12272
890-1561-13 MSD	C-715 4.1	Soluble	Solid	300.0	12272

Analysis Batch: 12843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1561-17	C-748 4.1	Soluble	Solid	300.0	12273
890-1561-18	C-883 4.1	Soluble	Solid	300.0	12273
890-1561-19	C-885 4.1	Soluble	Solid	300.0	12273
890-1561-20	C-894 4.1	Soluble	Solid	300.0	12273
890-1561-21	C-897 4.1	Soluble	Solid	300.0	12273
890-1561-22	C-898 4.1	Soluble	Solid	300.0	12273
890-1561-23	C-908	Soluble	Solid	300.0	12273
890-1561-24	C-910	Soluble	Solid	300.0	12273
MB 880-12273/1-A	Method Blank	Soluble	Solid	300.0	12273

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 12843 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-12273/2-A	Lab Control Sample	Soluble	Solid	300.0	12273
LCSD 880-12273/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12273
880-8242-A-6-F MS	Matrix Spike	Soluble	Solid	300.0	12273
880-8242-A-6-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	12273

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-703 4.1

Lab Sample ID: 890-1561-1

Date Collected: 11/09/21 11:23

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 00:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 12:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		5			12842	11/21/21 15:41	CH	XEN MID

Client Sample ID: C-704 4.1

Lab Sample ID: 890-1561-2

Date Collected: 11/09/21 11:24

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 01:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 13:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		1			12842	11/21/21 16:03	CH	XEN MID

Client Sample ID: C-705 4.1

Lab Sample ID: 890-1561-3

Date Collected: 11/09/21 11:25

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 01:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 13:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		1			12842	11/21/21 16:10	CH	XEN MID

Client Sample ID: C-706 4.1

Lab Sample ID: 890-1561-4

Date Collected: 11/09/21 11:26

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 01:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-706 4.1

Lab Sample ID: 890-1561-4

Date Collected: 11/09/21 11:26

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 14:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		1			12842	11/21/21 16:17	CH	XEN MID

Client Sample ID: C-707 4.1

Lab Sample ID: 890-1561-5

Date Collected: 11/09/21 11:27

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 02:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 14:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		1			12842	11/21/21 16:25	CH	XEN MID

Client Sample ID: C-708 4.1

Lab Sample ID: 890-1561-6

Date Collected: 11/09/21 11:28

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 02:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 14:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		1			12842	11/21/21 16:32	CH	XEN MID

Client Sample ID: C-709 4.1

Lab Sample ID: 890-1561-7

Date Collected: 11/09/21 11:29

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 02:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 15:14	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-709 4.1

Lab Sample ID: 890-1561-7

Date Collected: 11/09/21 11:29

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		1			12842	11/21/21 16:40	CH	XEN MID

Client Sample ID: C-710 4.1

Lab Sample ID: 890-1561-8

Date Collected: 11/09/21 11:30

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 03:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 15:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		1			12842	11/21/21 17:02	CH	XEN MID

Client Sample ID: C-711 4.1

Lab Sample ID: 890-1561-9

Date Collected: 11/09/21 11:31

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 03:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 15:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		1			12842	11/21/21 17:09	CH	XEN MID

Client Sample ID: C-712 4.1

Lab Sample ID: 890-1561-10

Date Collected: 11/09/21 11:32

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 03:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 16:19	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		1			12842	11/21/21 17:32	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-713 4.1

Lab Sample ID: 890-1561-11

Date Collected: 11/09/21 11:33

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 05:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		5			12842	11/21/21 17:39	CH	XEN MID

Client Sample ID: C-714 4.1

Lab Sample ID: 890-1561-12

Date Collected: 11/09/21 11:34

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 05:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 18:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		5			12842	11/21/21 17:46	CH	XEN MID

Client Sample ID: C-715 4.1

Lab Sample ID: 890-1561-13

Date Collected: 11/09/21 11:35

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 06:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 18:29	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		5			12842	11/20/21 18:55	CH	XEN MID

Client Sample ID: C-716 4.1

Lab Sample ID: 890-1561-14

Date Collected: 11/09/21 11:36

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 06:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-716 4.1

Lab Sample ID: 890-1561-14

Date Collected: 11/09/21 11:36

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 18:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		1			12842	11/21/21 15:19	CH	XEN MID

Client Sample ID: C-721 4.1

Lab Sample ID: 890-1561-15

Date Collected: 11/09/21 11:37

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 06:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 19:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		1			12842	11/21/21 15:26	CH	XEN MID

Client Sample ID: C-722 4.1

Lab Sample ID: 890-1561-16

Date Collected: 11/09/21 11:38

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 07:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 19:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12272	11/15/21 10:43	CA	XEN MID
Soluble	Analysis	300.0		1			12842	11/21/21 15:33	CH	XEN MID

Client Sample ID: C-748 4.1

Lab Sample ID: 890-1561-17

Date Collected: 11/09/21 11:39

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 07:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 19:55	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-748 4.1

Lab Sample ID: 890-1561-17

Date Collected: 11/09/21 11:39

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	12273	11/15/21 10:45	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	12843	11/20/21 16:35	CH	XEN MID

Client Sample ID: C-883 4.1

Lab Sample ID: 890-1561-18

Date Collected: 11/09/21 12:43

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 07:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 20:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12273	11/15/21 10:45	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	12843	11/20/21 16:45	CH	XEN MID

Client Sample ID: C-885 4.1

Lab Sample ID: 890-1561-19

Date Collected: 11/09/21 12:44

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 08:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 20:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12273	11/15/21 10:45	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	12843	11/20/21 16:56	CH	XEN MID

Client Sample ID: C-894 4.1

Lab Sample ID: 890-1561-20

Date Collected: 11/09/21 12:45

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	12025	11/11/21 13:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12497	11/18/21 08:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12050	11/11/21 16:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 21:00	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	12273	11/15/21 10:45	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	12843	11/20/21 17:27	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-897 4.1

Lab Sample ID: 890-1561-21

Date Collected: 11/09/21 12:46

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12215	11/15/21 08:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 14:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12101	11/12/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 22:52	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12273	11/15/21 10:45	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	12843	11/20/21 17:38	CH	XEN MID

Client Sample ID: C-898 4.1

Lab Sample ID: 890-1561-22

Date Collected: 11/09/21 12:47

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12215	11/15/21 08:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 15:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12101	11/12/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/12/21 23:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12273	11/15/21 10:45	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	12843	11/20/21 17:48	CH	XEN MID

Client Sample ID: C-908

Lab Sample ID: 890-1561-23

Date Collected: 11/09/21 12:48

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12026	11/15/21 08:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 23:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12101	11/12/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/13/21 00:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12273	11/15/21 10:45	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	12843	11/20/21 17:58	CH	XEN MID

Client Sample ID: C-910

Lab Sample ID: 890-1561-24

Date Collected: 11/09/21 12:49

Matrix: Solid

Date Received: 11/10/21 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	12026	11/15/21 08:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 23:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 13:36	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Client Sample ID: C-910
Date Collected: 11/09/21 12:49
Date Received: 11/10/21 15:04

Lab Sample ID: 890-1561-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12101	11/12/21 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12088	11/13/21 00:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12273	11/15/21 10:45	CA	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	12843	11/20/21 18:09	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1561-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1561-1	C-703 4.1	Solid	11/09/21 11:23	11/10/21 15:04	4.1
890-1561-2	C-704 4.1	Solid	11/09/21 11:24	11/10/21 15:04	4.1
890-1561-3	C-705 4.1	Solid	11/09/21 11:25	11/10/21 15:04	4.1
890-1561-4	C-706 4.1	Solid	11/09/21 11:26	11/10/21 15:04	4.1
890-1561-5	C-707 4.1	Solid	11/09/21 11:27	11/10/21 15:04	4.1
890-1561-6	C-708 4.1	Solid	11/09/21 11:28	11/10/21 15:04	4.1
890-1561-7	C-709 4.1	Solid	11/09/21 11:29	11/10/21 15:04	4.1
890-1561-8	C-710 4.1	Solid	11/09/21 11:30	11/10/21 15:04	4.1
890-1561-9	C-711 4.1	Solid	11/09/21 11:31	11/10/21 15:04	4.1
890-1561-10	C-712 4.1	Solid	11/09/21 11:32	11/10/21 15:04	4.1
890-1561-11	C-713 4.1	Solid	11/09/21 11:33	11/10/21 15:04	4.1
890-1561-12	C-714 4.1	Solid	11/09/21 11:34	11/10/21 15:04	4.1
890-1561-13	C-715 4.1	Solid	11/09/21 11:35	11/10/21 15:04	4.1
890-1561-14	C-716 4.1	Solid	11/09/21 11:36	11/10/21 15:04	4.1
890-1561-15	C-721 4.1	Solid	11/09/21 11:37	11/10/21 15:04	4.1
890-1561-16	C-722 4.1	Solid	11/09/21 11:38	11/10/21 15:04	4.1
890-1561-17	C-748 4.1	Solid	11/09/21 11:39	11/10/21 15:04	4.1
890-1561-18	C-883 4.1	Solid	11/09/21 12:43	11/10/21 15:04	4.1
890-1561-19	C-885 4.1	Solid	11/09/21 12:44	11/10/21 15:04	4.1
890-1561-20	C-894 4.1	Solid	11/09/21 12:45	11/10/21 15:04	4.1
890-1561-21	C-897 4.1	Solid	11/09/21 12:46	11/10/21 15:04	4.1
890-1561-22	C-898 4.1	Solid	11/09/21 12:47	11/10/21 15:04	4.1
890-1561-23	C-908	Solid	11/09/21 12:48	11/10/21 15:04	
890-1561-24	C-910	Solid	11/09/21 12:49	11/10/21 15:04	

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No. 2246

CHAIN-OF-CUSTODY

Aarson &
associates, Inc.
Environmental Consultants



890-1561 Chain of Custody

Data Reported to

DATE: 11/01/2021 PAGE 1 OF 5
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmar A57
LAI PROJECT #: 21-0105-02 COLLECTOR: ASG

COLLECTOR: Asy

PAGE 1 OF 2

[illegible]

Varson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State

MST/MDA

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ NaOH

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX/MTBE

TRPH 418 1 TPH 1005 TPH 1006

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PCBS

TCPP - METALS (RCRA)

TCPP - PEST

TOTAL METALS (RCRA)

LEAD - TOTAL (RCRA)

RCI - TOX

TDS - TSS

PH - HEXAVALENT CHROMIUM

EXPLOSIVES

CHLORIDE ANIONS ALKALINITY

FIELD NOTES

DATE: 11/16/2021 PAGE 2 OF 2
PO#: LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Palmie AST
LAI PROJECT #: 21-0105-02 COLLECTOR: BSA

No. 2247
CHAIN-OF-CUSTODY

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ NaOH	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
C-722	4.1	11/9/21	1139	S	1				X		X X X X	
C-748	4.1		1243									
C-883	4.1		1244									
C-885	4.1		1245									
C-894	4.1		1246									
C-897	4.1		1247									
C-898	4.1		1248									
C-908			1249									
C-910												
TOTAL	9											

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

NORMAL

RECEIVING TEMP

THERM#

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

1 DAY

CUSTODY SEALS -

BROKEN

INTACT

NOT USED

LABORATORY

XEND

OTHER

CARRIER BILL #

HAND DELIVERED

1	Eurofins Xanco Carlsbad
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Chain of Custody Record



Environment Testing

Eurofins Xenco, Carlsbad
1089 N Canal St
Carlsbad NM 86220
Phone 575-988-3199 Fax 575-988-3199

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No:									
Client Contact:				Phone	Taylor Holly		890-504 1									
Shipping/Receiving					E-Mail: holly.taylor@eurofinset.com	State of Origin New Mexico	Page: Page 1 of 3									
Company					Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1561-1									
Address				Due Date Requested	Analysis Requested											
1211 W Florida Ave				11/16/2021												
City				TAT Requested (days):												
Midland																
State, Zip																
TX, 79701																
Phone:				PO #												
432-704-5440(Te)																
Email				WOC #												
Project Name				Project #												
Palmo Ast				89000025												
Site				SSOW#												
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, B=bioreactor, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
C-703 4 1 (890-1561-1)		11/9/21	11 23	Mountain		Solid		X	X	X	X					
C-704 4 1 (890-1561-2)		11/9/21	11 24	Mountain		Solid		X	X	X	X					
C-705 4 1 (890-1561-3)		11/9/21	11 25	Mountain		Solid		X	X	X	X					
C-706 4 1 (890-1561-4)		11/9/21	11 26	Mountain		Solid		X	X	X	X					
C-707 4 1 (890-1561-5)		11/9/21	11 27	Mountain		Solid		X	X	X	X					
C-708 4 1 (890-1561-6)		11/9/21	11 28	Mountain		Solid		X	X	X	X					
C-709 4 1 (890-1561-7)		11/9/21	11 29	Mountain		Solid		X	X	X	X					
C-710 4 1 (890-1561-8)		11/9/21	11 30	Mountain		Solid		X	X	X	X					
C-711 4 1 (890-1561-9)		11/9/21	11 31	Mountain		Solid		X	X	X	X					

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2

Empty Kit Relinquished by: Date Time

Relinquished by: Date/Time Company Received by: Date/Time Company

Relinquished by: Date/Time Company Received by: Date/Time Company

Custody Seals Intact: Custody Seal No

Cooler Temperature(s) °C and Other Remarks

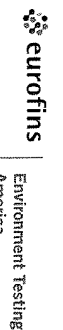
4.0/4.7

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

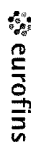


Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No.									
Client Contact	Phone	Taylor Holly			890-504 2									
Shipping/Receiving	E-Mail	holly.taylor@eurofinsnet.com	State of Origin		Page: 2 of 3									
Company			Accreditations Required (See note)		Job #:									
Eurofins Xenco			NE LAP - Louisiana NE LAP - Texas		890-1561-1									
Address	Due Date Requested	TAT Requested (days):	Analysis Requested											
1211 W Florida Ave	11/16/2021													
City														
Midland														
State Zip														
TX 79701														
Phone	PO #													
432-704-5440(Tel)														
Email	WO #:													
Project Name	Project #													
Palmito Ast	89000025													
Site	SSOW#:													
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, B=bioreactor, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFWM_28D/DI_LEACH Chloride	8021B/6036FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
C-712 4 1 (890-1561-10)		11/9/21	11 32		Solid	X	X	X	X	X	X	X	1	
C-713 4 1 (890-1561-11)		11/9/21	11 33		Solid	X	X	X	X	X	X	X	1	
C-714 4 1 (890-1561-12)		11/9/21	11 34		Solid	X	X	X	X	X	X	X	1	
C-715 4 1 (890-1561-13)		11/9/21	11 35		Solid	X	X	X	X	X	X	X	1	
C-716 4 1 (890-1561-14)		11/9/21	11 36		Solid	X	X	X	X	X	X	X	1	
C-721 4 1 (890-1561-15)		11/9/21	11 37		Solid	X	X	X	X	X	X	X	1	
C-722 4 1 (890-1561-16)		11/9/21	11 38		Solid	X	X	X	X	X	X	X	1	
C-748 4 1 (890-1561-17)		11/9/21	11 39		Solid	X	X	X	X	X	X	X	1	
C-883 4 1 (890-1561-18)		11/9/21	12 43		Solid	X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testing, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I II III IV Other (Specify)														
Primary Deliverable Rank 2														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months														
Special Instructions/QC Requirements														
Empty Kit Relinquished by														
Date/Time: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____														
Relinquished by _____ Date/Time: _____ Company: _____														
Relinquished by _____ Date/Time: _____ Company: _____														
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No														
Cooler Temperature(s) °C and Other Remarks.														

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier/Tracking Note(s)	COC No.										
Client Contact: Shipping/Receiving				Phone:	Taylor Holly		890-504 3										
Company: Eurofins Xenco				E-Mail: holly.taylor@eurofinsnet.com	Accreditations Required (See note)	State of Origin: New Mexico	Page 3 of 3										
Address: 1211 W. Florida Ave.				Due Date Requested: 11/16/2021	NELAP - Louisiana NELAP - Texas		Job #										
City: Midland				TAT Requested (days):	Analysis Requested		Preservation Codes										
State Zip: TX 79701							A HCL B NaOH C - Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other										
Phone: 432-704-5440(Tel)				PO #:			M Hexane N None O Ashtao2 P Na2OAS Q Na2SC3 R Na2S2O3 S H2SO4 T TSP Dodecylhydrate U Acetone V - MCAA W pH 4-5 Z other (Specify)										
Email:				WO #:													
Project Name: Palmito Ast				Project #:													
Site:				SSOV#:													
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid O=wastewat/I BT=Tissue, A=Al)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8016NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFm_28D/DI_LEACH Chloride	8021B/6036FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:	
C-885 4 1 (890-1561-19)				11/9/21	12 44		Solid	X	X	X	X	X	X	X	X	1	
C-894 4 1 (890-1561-20)				11/9/21	12 45		Solid	X	X	X	X	X	X	X	X	1	
C-897 4 1 (890-1561-21)				11/9/21	12 46		Solid	X	X	X	X	X	X	X	X	1	
C-898 4 1 (890-1561-22)				11/9/21	12 47		Solid	X	X	X	X	X	X	X	X	1	
C-908 (890-1561-23)				11/9/21	12 48		Solid	X	X	X	X	X	X	X	X	1	
C-910 (890-1561-24)				11/9/21	12 49		Solid	X	X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.																	
Possible Hazard Identification																	
Unconfirmed																	
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2																	
Empty Kit Relinquished by: Date: Time: Method of Shipment:																	
Relinquished by: <i>[Signature]</i> Date/Time: 11/11/21 Company: Received by: <i>[Signature]</i> Date/Time: 11/11/21 Company:																	
Relinquished by: Date/Time: Company: Received by: <i>[Signature]</i> Date/Time: Company:																	
Custody Seals Intact: Custody Seal No: Cooler Temperature(s) °C and Other Remarks:																	
Δ Yes Δ No																	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1561-1

SDG Number: 21-0105-02

Login Number: 1561**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1561-1

SDG Number: 21-0105-02

Login Number: 1561**List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Xenco, Midland****List Creation: 11/11/21 12:52 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1565-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in cursive script that reads "Holly Taylor".

Authorized for release by:
11/22/2021 5:21:02 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1565-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Job ID: 890-1565-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1565-1

Comments

No additional comments.

Receipt

The samples were received on 11/11/2021 3:06 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11948 and analytical batch 880-12216 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-12224/3-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-12491 and analytical batch 880-12845 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Client Sample ID: C-1049 2.5

Lab Sample ID: 890-1565-1

Date Collected: 11/11/21 07:51

Matrix: Solid

Date Received: 11/11/21 15:06

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/15/21 17:00	11/16/21 06:58	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/15/21 17:00	11/16/21 06:58	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/15/21 17:00	11/16/21 06:58	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		11/15/21 17:00	11/16/21 06:58	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/15/21 17:00	11/16/21 06:58	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/15/21 17:00	11/16/21 06:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	11/15/21 17:00	11/16/21 06:58	1
1,4-Difluorobenzene (Surr)	123		70 - 130	11/15/21 17:00	11/16/21 06:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/18/21 16:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	177		49.9	mg/Kg			11/17/21 13:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/15/21 08:59	11/15/21 19:23	1
Diesel Range Organics (Over C10-C28)	121		49.9	mg/Kg		11/15/21 08:59	11/15/21 19:23	1
Oil Range Organics (Over C28-C36)	55.5		49.9	mg/Kg		11/15/21 08:59	11/15/21 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130	11/15/21 08:59	11/15/21 19:23	1
o-Terphenyl (Surr)	130		70 - 130	11/15/21 08:59	11/15/21 19:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		4.99	mg/Kg			11/21/21 19:11	1

Client Sample ID: C-1051 2.5

Lab Sample ID: 890-1565-2

Date Collected: 11/11/21 07:53

Matrix: Solid

Date Received: 11/11/21 15:06

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/15/21 17:00	11/16/21 07:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/15/21 17:00	11/16/21 07:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/15/21 17:00	11/16/21 07:19	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		11/15/21 17:00	11/16/21 07:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/15/21 17:00	11/16/21 07:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/15/21 17:00	11/16/21 07:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Client Sample ID: C-1051 2.5

Lab Sample ID: 890-1565-2

Date Collected: 11/11/21 07:53

Matrix: Solid

Date Received: 11/11/21 15:06

Sample Depth: 2.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	11/15/21 17:00	11/16/21 07:19	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/15/21 17:00	11/16/21 07:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg	-		11/18/21 16:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	78.0		50.0	mg/Kg	-		11/17/21 13:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	-	11/15/21 08:59	11/15/21 19:44	1
Diesel Range Organics (Over C10-C28)	78.0		50.0	mg/Kg		11/15/21 08:59	11/15/21 19:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/15/21 08:59	11/15/21 19:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			11/15/21 08:59	11/15/21 19:44	1
o-Terphenyl (Surr)	121		70 - 130			11/15/21 08:59	11/15/21 19:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		4.99	mg/Kg	-		11/21/21 19:15	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-8081-A-57-F MS	Matrix Spike	121	102
880-8081-A-57-G MSD	Matrix Spike Duplicate	146 S1+	102
890-1565-1	C-1049 2.5	132 S1+	123
890-1565-2	C-1051 2.5	128	105
890-1568-A-5-E MS	Matrix Spike	180 S1+	114
890-1568-A-5-F MSD	Matrix Spike Duplicate	127	102
LCS 880-11948/1-A	Lab Control Sample	123	100
LCS 880-12275/1-A	Lab Control Sample	111	95
LCSD 880-11948/2-A	Lab Control Sample Dup	124	107
LCSD 880-12275/2-A	Lab Control Sample Dup	121	98
MB 880-11948/5-A	Method Blank	123	99
MB 880-12208/5-A	Method Blank	125	105
MB 880-12275/5-A	Method Blank	125	108

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1565-1	C-1049 2.5	120	130
890-1565-2	C-1051 2.5	113	121
890-1570-A-1-F MS	Matrix Spike	103	99
890-1570-A-1-G MSD	Matrix Spike Duplicate	112	109
LCS 880-12224/2-A	Lab Control Sample	83	83
LCSD 880-12224/3-A	Lab Control Sample Dup	156 S1+	161 S1+
MB 880-12224/1-A	Method Blank	107	117

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11948/5-A

Matrix: Solid

Analysis Batch: 12216

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11948

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:00	11/15/21 23:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:00	11/15/21 23:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:00	11/15/21 23:35	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/15/21 08:00	11/15/21 23:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:00	11/15/21 23:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/15/21 08:00	11/15/21 23:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	11/15/21 08:00	11/15/21 23:35	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/15/21 08:00	11/15/21 23:35	1

Lab Sample ID: LCS 880-11948/1-A

Matrix: Solid

Analysis Batch: 12216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09809		mg/Kg		98	70 - 130
Toluene	0.100	0.1054		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1030		mg/Kg		103	70 - 130
m,p-Xylenes	0.200	0.2070		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-11948/2-A

Matrix: Solid

Analysis Batch: 12216

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11948

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1011		mg/Kg		101	70 - 130	3	35
Toluene	0.100	0.09900		mg/Kg		99	70 - 130	6	35
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130	2	35
m,p-Xylenes	0.200	0.2020		mg/Kg		101	70 - 130	2	35
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-8081-A-57-F MS

Matrix: Solid

Analysis Batch: 12216

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11948

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.100	0.09766		mg/Kg		97	70 - 130
Toluene	<0.00199	U F2 F1	0.100	0.1025		mg/Kg		101	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-8081-A-57-F MS

Matrix: Solid

Analysis Batch: 12216

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11948

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F2 F1	0.100	0.1018		mg/Kg		101	70 - 130
m,p-Xylenes	<0.00398	U F2 F1	0.201	0.2016		mg/Kg		100	70 - 130
o-Xylene	<0.00199	U	0.100	0.09891		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-8081-A-57-G MSD

Matrix: Solid

Analysis Batch: 12216

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 11948

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.0994	0.03888	F2 F1	mg/Kg		39	70 - 130	86	35
Toluene	<0.00199	U F2 F1	0.0994	0.06600	F2 F1	mg/Kg		66	70 - 130	43	35
Ethylbenzene	<0.00199	U F2 F1	0.0994	0.04647	F2 F1	mg/Kg		47	70 - 130	75	35
m,p-Xylenes	<0.00398	U F2 F1	0.199	0.1067	F2 F1	mg/Kg		54	70 - 130	62	35
o-Xylene	<0.00199	U	0.0994	0.08035		mg/Kg		80	70 - 130	21	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-12208/5-A

Matrix: Solid

Analysis Batch: 12216

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12208

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:00	11/15/21 11:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:00	11/15/21 11:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:00	11/15/21 11:28	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/15/21 08:00	11/15/21 11:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/15/21 08:00	11/15/21 11:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/15/21 08:00	11/15/21 11:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	11/15/21 08:00	11/15/21 11:28	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/15/21 08:00	11/15/21 11:28	1

Lab Sample ID: MB 880-12275/5-A

Matrix: Solid

Analysis Batch: 12413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12275

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/15/21 10:53	11/16/21 12:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/15/21 10:53	11/16/21 12:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/15/21 10:53	11/16/21 12:14	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/15/21 10:53	11/16/21 12:14	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-12275/5-A

Matrix: Solid

Analysis Batch: 12413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12275

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/15/21 10:53	11/16/21 12:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/15/21 10:53	11/16/21 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	11/15/21 10:53	11/16/21 12:14	1
1,4-Difluorobenzene (Surr)	108		70 - 130	11/15/21 10:53	11/16/21 12:14	1

Lab Sample ID: LCS 880-12275/1-A

Matrix: Solid

Analysis Batch: 12413

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08564		mg/Kg		86	70 - 130
Toluene	0.100	0.08933		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09956		mg/Kg		100	70 - 130
m,p-Xylenes	0.200	0.1887		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09021		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-12275/2-A

Matrix: Solid

Analysis Batch: 12413

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12275

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09333		mg/Kg		93	70 - 130	9	35
Toluene	0.100	0.1017		mg/Kg		102	70 - 130	13	35
Ethylbenzene	0.100	0.1012		mg/Kg		101	70 - 130	2	35
m,p-Xylenes	0.200	0.2020		mg/Kg		101	70 - 130	7	35
o-Xylene	0.100	0.09711		mg/Kg		97	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-1568-A-5-E MS

Matrix: Solid

Analysis Batch: 12413

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12275

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F2	0.101	0.1033		mg/Kg		102	70 - 130
Toluene	<0.00198	U F1 F2	0.101	0.1733	F1	mg/Kg		171	70 - 130
Ethylbenzene	<0.00198	U F2	0.101	0.1068		mg/Kg		106	70 - 130
m,p-Xylenes	<0.00397	U F1	0.202	0.1796		mg/Kg		89	70 - 130
o-Xylene	<0.00198	U F1 F2	0.101	0.1016		mg/Kg		100	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1568-A-5-E MS

Matrix: Solid

Analysis Batch: 12413

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12275

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 890-1568-A-5-F MSD

Matrix: Solid

Analysis Batch: 12413

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12275

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F2	0.0998	0.07033	F2	mg/Kg		70	70 - 130	38	35
Toluene	<0.00198	U F1 F2	0.0998	0.07670	F2	mg/Kg		76	70 - 130	77	35
Ethylbenzene	<0.00198	U F2	0.0998	0.07422	F2	mg/Kg		74	70 - 130	36	35
m,p-Xylenes	<0.00397	U F1	0.200	0.1371	F1	mg/Kg		69	70 - 130	27	35
o-Xylene	<0.00198	U F1 F2	0.0998	0.04809	F1 F2	mg/Kg		47	70 - 130	71	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12224/1-A

Matrix: Solid

Analysis Batch: 12235

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12224

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/15/21 08:59	11/15/21 11:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/15/21 08:59	11/15/21 11:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/15/21 08:59	11/15/21 11:55	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	107		70 - 130	11/15/21 08:59	11/15/21 11:55	1		
o-Terphenyl (Surr)	117		70 - 130	11/15/21 08:59	11/15/21 11:55	1		

Lab Sample ID: LCS 880-12224/2-A

Matrix: Solid

Analysis Batch: 12235

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12224

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1095		mg/Kg		109	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	920.3		mg/Kg		92	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	83		70 - 130
o-Terphenyl (Surr)	83		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-12224/3-A

Matrix: Solid

Analysis Batch: 12235

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12224

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1261		mg/Kg		126	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	1118		mg/Kg		112	70 - 130	19	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	156	S1+	70 - 130						
o-Terphenyl (Surr)	161	S1+	70 - 130						

Lab Sample ID: 890-1570-A-1-F MS

Matrix: Solid

Analysis Batch: 12235

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12224

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1596	F1	mg/Kg		160	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1020		mg/Kg		100	70 - 130		
Surrogate	%Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	103		70 - 130								
o-Terphenyl (Surr)	99		70 - 130								

Lab Sample ID: 890-1570-A-1-G MSD

Matrix: Solid

Analysis Batch: 12235

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12224

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	998	1762	F1	mg/Kg		177	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1114		mg/Kg		110	70 - 130	9	20
Surrogate	%Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	112		70 - 130								
o-Terphenyl (Surr)	109		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12491/1-A

Matrix: Solid

Analysis Batch: 12845

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/21/21 16:48	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-12491/2-A

Matrix: Solid

Analysis Batch: 12845

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	264.7		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-12491/3-A

Matrix: Solid

Analysis Batch: 12845

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	257.9		mg/Kg		103	90 - 110	3	20

Lab Sample ID: 880-8307-A-5-D MS

Matrix: Solid

Analysis Batch: 12845

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	723	F1	250	936.8	F1	mg/Kg		86	90 - 110

Lab Sample ID: 880-8307-A-5-E MSD

Matrix: Solid

Analysis Batch: 12845

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	723	F1	250	960.7		mg/Kg		95	90 - 110	3	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

GC VOA

Prep Batch: 11948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1565-1	C-1049 2.5	Total/NA	Solid	5035	
890-1565-2	C-1051 2.5	Total/NA	Solid	5035	
MB 880-11948/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11948/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11948/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8081-A-57-F MS	Matrix Spike	Total/NA	Solid	5035	
880-8081-A-57-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 12208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12208/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 12216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1565-1	C-1049 2.5	Total/NA	Solid	8021B	11948
890-1565-2	C-1051 2.5	Total/NA	Solid	8021B	11948
MB 880-11948/5-A	Method Blank	Total/NA	Solid	8021B	11948
MB 880-12208/5-A	Method Blank	Total/NA	Solid	8021B	12208
LCS 880-11948/1-A	Lab Control Sample	Total/NA	Solid	8021B	11948
LCSD 880-11948/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11948
880-8081-A-57-F MS	Matrix Spike	Total/NA	Solid	8021B	11948
880-8081-A-57-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11948

Prep Batch: 12275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12275/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12275/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12275/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1568-A-5-E MS	Matrix Spike	Total/NA	Solid	5035	
890-1568-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 12413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12275/5-A	Method Blank	Total/NA	Solid	8021B	12275
LCS 880-12275/1-A	Lab Control Sample	Total/NA	Solid	8021B	12275
LCSD 880-12275/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12275
890-1568-A-5-E MS	Matrix Spike	Total/NA	Solid	8021B	12275
890-1568-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	12275

Analysis Batch: 12693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1565-1	C-1049 2.5	Total/NA	Solid	Total BTEX	
890-1565-2	C-1051 2.5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 12224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1565-1	C-1049 2.5	Total/NA	Solid	8015NM Prep	
890-1565-2	C-1051 2.5	Total/NA	Solid	8015NM Prep	
MB 880-12224/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 12224 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-12224/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12224/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1570-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1570-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1565-1	C-1049 2.5	Total/NA	Solid	8015B NM	12224
890-1565-2	C-1051 2.5	Total/NA	Solid	8015B NM	12224
MB 880-12224/1-A	Method Blank	Total/NA	Solid	8015B NM	12224
LCS 880-12224/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12224
LCSD 880-12224/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12224
890-1570-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	12224
890-1570-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	12224

Analysis Batch: 12574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1565-1	C-1049 2.5	Total/NA	Solid	8015 NM	
890-1565-2	C-1051 2.5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 12491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1565-1	C-1049 2.5	Soluble	Solid	DI Leach	
890-1565-2	C-1051 2.5	Soluble	Solid	DI Leach	
MB 880-12491/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12491/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12491/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8307-A-5-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8307-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 12845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1565-1	C-1049 2.5	Soluble	Solid	300.0	12491
890-1565-2	C-1051 2.5	Soluble	Solid	300.0	12491
MB 880-12491/1-A	Method Blank	Soluble	Solid	300.0	12491
LCS 880-12491/2-A	Lab Control Sample	Soluble	Solid	300.0	12491
LCSD 880-12491/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12491
880-8307-A-5-D MS	Matrix Spike	Soluble	Solid	300.0	12491
880-8307-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	12491

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Client Sample ID: C-1049 2.5

Lab Sample ID: 890-1565-1

Date Collected: 11/11/21 07:51

Matrix: Solid

Date Received: 11/11/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11948	11/15/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12216	11/16/21 06:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12224	11/15/21 08:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12235	11/15/21 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12491	11/17/21 07:47	CA	XEN MID
Soluble	Analysis	300.0		1			12845	11/21/21 19:11	CH	XEN MID

Client Sample ID: C-1051 2.5

Lab Sample ID: 890-1565-2

Date Collected: 11/11/21 07:53

Matrix: Solid

Date Received: 11/11/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11948	11/15/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12216	11/16/21 07:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12224	11/15/21 08:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12235	11/15/21 19:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12491	11/17/21 07:47	CA	XEN MID
Soluble	Analysis	300.0		1			12845	11/21/21 19:15	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1565-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1565-1	C-1049 2.5	Solid	11/11/21 07:51	11/11/21 15:06	2.5
890-1565-2	C-1051 2.5	Solid	11/11/21 07:53	11/11/21 15:06	2.5

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No. 2248

Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



**Environment Testing
America**

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1565-1

SDG Number: 21-0105-02

Login Number: 1565**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1565-1

SDG Number: 21-0105-02

Login Number: 1565**List Number: 2****Creator: Teel, Brianna****List Source: Eurofins Xenco, Midland****List Creation: 11/15/21 09:09 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1573-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
11/24/2021 12:02:05 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1573-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Eurofins Xenco, Carlsbad

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Job ID: 890-1573-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1573-1

Comments

No additional comments.

Receipt

The samples were received on 11/15/2021 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 29.2° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12433 and analytical batch 880-12513 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-1242 (890-1573-1), C-1245 (890-1573-4), C-1248 (890-1573-7), C-1252 (890-1573-11), C-1253 (890-1573-12) and (MB 880-12432/5-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: CCV biased low in the >C10-C28 hydrocarbon ranges but since a subsequent CCV was analyzed within the acceptable 12 hour window the data was qualified and reported.
(CCV 880-12398/46)

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: C-1242 (890-1573-1), C-1243 (890-1573-2), C-1248 (890-1573-7), (LCSD 880-12474/3-A) and (MB 880-12474/1-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: The laboratory control sample (LCS) associated with preparation batch 880-12449 and analytical batch 880-12464 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-12449 and analytical batch 880-12464 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12589 and analytical batch 880-12961 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: C-1262 (890-1573-21), C-1263 (890-1573-22), C-1264 (890-1573-23), C-1265 (890-1573-24), C-1266 (890-1573-25), C-1267 (890-1573-26), C-1268 (890-1573-27), C-1269 (890-1573-28), C-1270 (890-1573-29), C-1271 (890-1573-30), C-1272 (890-1573-31), C-1273 (890-1573-32), C-1274 (890-1573-33), C-1275 (890-1573-34), C-1276 (890-1573-35), (890-1573-A-21-E MS), (890-1573-A-21-F MSD), (890-1573-A-31-H MS) and (890-1573-A-31-I MSD).

Method 300.0: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 880-12591 and analytical batch 880-13067 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified. C-1252 (890-1573-11), C-1253 (890-1573-12), C-1254 (890-1573-13), C-1255 (890-1573-14), C-1256 (890-1573-15), C-1257 (890-1573-16), C-1258 (890-1573-17), C-1259 (890-1573-18), C-1260 (890-1573-19), C-1261 (890-1573-20), (890-1573-A-11-I MS) and (890-1573-A-11-J MSD)

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Job ID: 890-1573-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12591 and analytical batch 880-13067 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: C-1242 (890-1573-1), C-1243 (890-1573-2), C-1244 (890-1573-3), C-1245 (890-1573-4), C-1246 (890-1573-5), C-1247 (890-1573-6), C-1248 (890-1573-7), C-1249 (890-1573-8), C-1250 (890-1573-9), C-1251 (890-1573-10), C-1252 (890-1573-11), C-1253 (890-1573-12), C-1254 (890-1573-13), C-1255 (890-1573-14), C-1256 (890-1573-15), C-1257 (890-1573-16), C-1258 (890-1573-17), C-1259 (890-1573-18), C-1260 (890-1573-19), C-1261 (890-1573-20), (890-1573-A-1-I MS), (890-1573-A-1-J MSD), (890-1573-A-11-I MS) and (890-1573-A-11-J MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1242

Lab Sample ID: 890-1573-1

Date Collected: 11/15/21 10:00

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:05	11/17/21 23:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:05	11/17/21 23:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:05	11/17/21 23:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/16/21 10:05	11/17/21 23:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:05	11/17/21 23:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/16/21 10:05	11/17/21 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	11/16/21 10:05	11/17/21 23:25	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/16/21 10:05	11/17/21 23:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/16/21 22:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/16/21 22:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/16/21 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	11/16/21 16:02	11/16/21 22:02	1
o-Terphenyl (Surr)	131	S1+	70 - 130	11/16/21 16:02	11/16/21 22:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	458	F1	4.95	mg/Kg			11/23/21 13:02	1

Client Sample ID: C-1243

Lab Sample ID: 890-1573-2

Date Collected: 11/15/21 10:01

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:05	11/17/21 23:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:05	11/17/21 23:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:05	11/17/21 23:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/16/21 10:05	11/17/21 23:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:05	11/17/21 23:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/16/21 10:05	11/17/21 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	11/16/21 10:05	11/17/21 23:51	1
1,4-Difluorobenzene (Surr)	112		70 - 130	11/16/21 10:05	11/17/21 23:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1243

Lab Sample ID: 890-1573-2

Date Collected: 11/15/21 10:01

Matrix: Solid

Date Received: 11/15/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/16/21 16:02	11/16/21 23:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/16/21 16:02	11/16/21 23:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/16/21 16:02	11/16/21 23:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130			11/16/21 16:02	11/16/21 23:05	1
o-Terphenyl (Surr)	146	S1+	70 - 130			11/16/21 16:02	11/16/21 23:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	698		5.04	mg/Kg			11/23/21 13:37	1

Client Sample ID: C-1244

Lab Sample ID: 890-1573-3

Date Collected: 11/15/21 10:02

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/16/21 10:05	11/18/21 00:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/16/21 10:05	11/18/21 00:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/16/21 10:05	11/18/21 00:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/16/21 10:05	11/18/21 00:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/16/21 10:05	11/18/21 00:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/16/21 10:05	11/18/21 00:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			11/16/21 10:05	11/18/21 00:16	1
1,4-Difluorobenzene (Surr)	97		70 - 130			11/16/21 10:05	11/18/21 00:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/16/21 16:02	11/16/21 23:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/16/21 16:02	11/16/21 23:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1244

Lab Sample ID: 890-1573-3

Date Collected: 11/15/21 10:02

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/16/21 16:02	11/16/21 23:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			11/16/21 16:02	11/16/21 23:25	1
o-Terphenyl (Surr)	120		70 - 130			11/16/21 16:02	11/16/21 23:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		4.99	mg/Kg			11/23/21 13:48	1

Client Sample ID: C-1245

Lab Sample ID: 890-1573-4

Date Collected: 11/15/21 10:03

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/18/21 00:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/18/21 00:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/18/21 00:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/16/21 10:05	11/18/21 00:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/18/21 00:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/16/21 10:05	11/18/21 00:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130			11/16/21 10:05	11/18/21 00:42	1
1,4-Difluorobenzene (Surr)	128		70 - 130			11/16/21 10:05	11/18/21 00:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/16/21 23:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/16/21 23:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/16/21 23:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			11/16/21 16:02	11/16/21 23:46	1
o-Terphenyl (Surr)	124		70 - 130			11/16/21 16:02	11/16/21 23:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		4.98	mg/Kg			11/23/21 13:59	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1246

Lab Sample ID: 890-1573-5

Date Collected: 11/15/21 10:04

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/16/21 10:05	11/18/21 01:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/16/21 10:05	11/18/21 01:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/16/21 10:05	11/18/21 01:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/16/21 10:05	11/18/21 01:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/16/21 10:05	11/18/21 01:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/16/21 10:05	11/18/21 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/16/21 10:05	11/18/21 01:08	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/16/21 10:05	11/18/21 01:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/16/21 16:02	11/17/21 00:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/16/21 16:02	11/17/21 00:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/16/21 16:02	11/17/21 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130	11/16/21 16:02	11/17/21 00:07	1
o-Terphenyl (Surr)	86		70 - 130	11/16/21 16:02	11/17/21 00:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	882		4.97	mg/Kg			11/23/21 14:11	1

Client Sample ID: C-1247

Lab Sample ID: 890-1573-6

Date Collected: 11/15/21 10:05

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:05	11/18/21 01:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:05	11/18/21 01:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:05	11/18/21 01:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/16/21 10:05	11/18/21 01:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:05	11/18/21 01:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/16/21 10:05	11/18/21 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	11/16/21 10:05	11/18/21 01:33	1
1,4-Difluorobenzene (Surr)	114		70 - 130	11/16/21 10:05	11/18/21 01:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1247

Lab Sample ID: 890-1573-6

Date Collected: 11/15/21 10:05

Matrix: Solid

Date Received: 11/15/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 00:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 00:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 00:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			11/16/21 16:02	11/17/21 00:27	1
o-Terphenyl (Surr)	86		70 - 130			11/16/21 16:02	11/17/21 00:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1660		24.8	mg/Kg			11/23/21 14:45	5

Client Sample ID: C-1248

Lab Sample ID: 890-1573-7

Date Collected: 11/15/21 10:06

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/18/21 01:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/18/21 01:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/18/21 01:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/16/21 10:05	11/18/21 01:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/18/21 01:59	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/16/21 10:05	11/18/21 01:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130			11/16/21 10:05	11/18/21 01:59	1
1,4-Difluorobenzene (Surr)	91		70 - 130			11/16/21 10:05	11/18/21 01:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 00:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 00:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1248

Lab Sample ID: 890-1573-7

Date Collected: 11/15/21 10:06

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 00:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	66	S1-	70 - 130			11/16/21 16:02	11/17/21 00:48	1
o-Terphenyl (Surr)	68	S1-	70 - 130			11/16/21 16:02	11/17/21 00:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		4.95	mg/Kg			11/23/21 14:56	1

Client Sample ID: C-1249

Lab Sample ID: 890-1573-8

Date Collected: 11/15/21 10:07

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/16/21 10:05	11/18/21 02:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/16/21 10:05	11/18/21 02:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/16/21 10:05	11/18/21 02:25	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/16/21 10:05	11/18/21 02:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/16/21 10:05	11/18/21 02:25	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/16/21 10:05	11/18/21 02:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			11/16/21 10:05	11/18/21 02:25	1
1,4-Difluorobenzene (Surr)	116		70 - 130			11/16/21 10:05	11/18/21 02:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/16/21 16:02	11/17/21 01:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/16/21 16:02	11/17/21 01:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/16/21 16:02	11/17/21 01:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			11/16/21 16:02	11/17/21 01:09	1
o-Terphenyl (Surr)	88		70 - 130			11/16/21 16:02	11/17/21 01:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	398		4.96	mg/Kg			11/23/21 15:08	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1250

Lab Sample ID: 890-1573-9

Date Collected: 11/15/21 10:08

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/16/21 10:05	11/18/21 02:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/16/21 10:05	11/18/21 02:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/16/21 10:05	11/18/21 02:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		11/16/21 10:05	11/18/21 02:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/16/21 10:05	11/18/21 02:51	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		11/16/21 10:05	11/18/21 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	11/16/21 10:05	11/18/21 02:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/16/21 10:05	11/18/21 02:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/16/21 16:02	11/17/21 01:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/16/21 16:02	11/17/21 01:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/16/21 16:02	11/17/21 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130	11/16/21 16:02	11/17/21 01:29	1
o-Terphenyl (Surr)	80		70 - 130	11/16/21 16:02	11/17/21 01:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100		25.1	mg/Kg			11/23/21 15:19	5

Client Sample ID: C-1251

Lab Sample ID: 890-1573-10

Date Collected: 11/15/21 10:09

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/18/21 03:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/18/21 03:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/18/21 03:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/16/21 10:05	11/18/21 03:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/18/21 03:18	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/16/21 10:05	11/18/21 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/16/21 10:05	11/18/21 03:18	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/16/21 10:05	11/18/21 03:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1251

Lab Sample ID: 890-1573-10

Date Collected: 11/15/21 10:09

Matrix: Solid

Date Received: 11/15/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/16/21 16:02	11/17/21 01:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/16/21 16:02	11/17/21 01:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/16/21 16:02	11/17/21 01:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			11/16/21 16:02	11/17/21 01:50	1
o-Terphenyl (Surr)	91		70 - 130			11/16/21 16:02	11/17/21 01:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2380		24.9	mg/Kg			11/23/21 15:31	5

Client Sample ID: C-1252

Lab Sample ID: 890-1573-11

Date Collected: 11/15/21 10:10

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200	mg/Kg		11/16/21 10:07	11/18/21 07:13	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		11/16/21 10:07	11/18/21 07:13	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/Kg		11/16/21 10:07	11/18/21 07:13	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401	mg/Kg		11/16/21 10:07	11/18/21 07:13	1
o-Xylene	<0.00200	U F1	0.00200	mg/Kg		11/16/21 10:07	11/18/21 07:13	1
Xylenes, Total	<0.00401	U F1	0.00401	mg/Kg		11/16/21 10:07	11/18/21 07:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130			11/16/21 10:07	11/18/21 07:13	1
1,4-Difluorobenzene (Surr)	100		70 - 130			11/16/21 10:07	11/18/21 07:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/16/21 16:02	11/17/21 02:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/16/21 16:02	11/17/21 02:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1252

Lab Sample ID: 890-1573-11

Date Collected: 11/15/21 10:10

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/16/21 16:02	11/17/21 02:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130			11/16/21 16:02	11/17/21 02:31	1
o-Terphenyl (Surr)	71		70 - 130			11/16/21 16:02	11/17/21 02:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1470		4.99	mg/Kg			11/23/21 15:42	1

Client Sample ID: C-1253

Lab Sample ID: 890-1573-12

Date Collected: 11/15/21 10:11

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/16/21 10:07	11/18/21 07:39	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/16/21 10:07	11/18/21 07:39	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/16/21 10:07	11/18/21 07:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/16/21 10:07	11/18/21 07:39	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/16/21 10:07	11/18/21 07:39	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/16/21 10:07	11/18/21 07:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	201	S1+	70 - 130			11/16/21 10:07	11/18/21 07:39	1
1,4-Difluorobenzene (Surr)	88		70 - 130			11/16/21 10:07	11/18/21 07:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 02:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 02:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 02:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			11/16/21 16:02	11/17/21 02:52	1
o-Terphenyl (Surr)	75		70 - 130			11/16/21 16:02	11/17/21 02:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	695		5.01	mg/Kg			11/23/21 16:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1254

Lab Sample ID: 890-1573-13

Date Collected: 11/15/21 10:12

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 08:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 08:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 08:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/16/21 10:07	11/18/21 08:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 08:05	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/16/21 10:07	11/18/21 08:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/16/21 10:07	11/18/21 08:05	1
1,4-Difluorobenzene (Surr)	115		70 - 130	11/16/21 10:07	11/18/21 08:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 03:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 03:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130	11/16/21 16:02	11/17/21 03:13	1
o-Terphenyl (Surr)	83		70 - 130	11/16/21 16:02	11/17/21 03:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		4.97	mg/Kg			11/23/21 16:28	1

Client Sample ID: C-1255

Lab Sample ID: 890-1573-14

Date Collected: 11/15/21 10:13

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 08:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 08:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 08:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/16/21 10:07	11/18/21 08:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 08:31	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/16/21 10:07	11/18/21 08:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	11/16/21 10:07	11/18/21 08:31	1
1,4-Difluorobenzene (Surr)	114		70 - 130	11/16/21 10:07	11/18/21 08:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1255

Lab Sample ID: 890-1573-14

Date Collected: 11/15/21 10:13

Matrix: Solid

Date Received: 11/15/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 03:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 03:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 03:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			11/16/21 16:02	11/17/21 03:33	1
o-Terphenyl (Surr)	87		70 - 130			11/16/21 16:02	11/17/21 03:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3440		24.8	mg/Kg			11/23/21 17:02	5

Client Sample ID: C-1256

Lab Sample ID: 890-1573-15

Date Collected: 11/15/21 10:14

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:07	11/18/21 08:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:07	11/18/21 08:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:07	11/18/21 08:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/16/21 10:07	11/18/21 08:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:07	11/18/21 08:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/16/21 10:07	11/18/21 08:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			11/16/21 10:07	11/18/21 08:58	1
1,4-Difluorobenzene (Surr)	114		70 - 130			11/16/21 10:07	11/18/21 08:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 03:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 03:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1256

Lab Sample ID: 890-1573-15

Date Collected: 11/15/21 10:14

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/17/21 03:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			11/16/21 16:02	11/17/21 03:54	1
o-Terphenyl (Surr)	93		70 - 130			11/16/21 16:02	11/17/21 03:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		24.9	mg/Kg			11/23/21 17:13	5

Client Sample ID: C-1257

Lab Sample ID: 890-1573-16

Date Collected: 11/15/21 10:15

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/16/21 10:07	11/18/21 09:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/16/21 10:07	11/18/21 09:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/16/21 10:07	11/18/21 09:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/16/21 10:07	11/18/21 09:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/16/21 10:07	11/18/21 09:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/16/21 10:07	11/18/21 09:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			11/16/21 10:07	11/18/21 09:26	1
1,4-Difluorobenzene (Surr)	116		70 - 130			11/16/21 10:07	11/18/21 09:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/16/21 16:02	11/17/21 04:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/16/21 16:02	11/17/21 04:14	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/16/21 16:02	11/17/21 04:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			11/16/21 16:02	11/17/21 04:14	1
o-Terphenyl (Surr)	92		70 - 130			11/16/21 16:02	11/17/21 04:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2890		25.0	mg/Kg			11/23/21 17:25	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1258

Lab Sample ID: 890-1573-17

Date Collected: 11/15/21 10:16

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 09:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 09:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 09:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/16/21 10:07	11/18/21 09:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 09:54	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/16/21 10:07	11/18/21 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	11/16/21 10:07	11/18/21 09:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/16/21 10:07	11/18/21 09:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		11/16/21 13:57	11/16/21 16:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U F2	50.0	mg/Kg		11/16/21 13:57	11/16/21 16:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 13:57	11/16/21 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	11/16/21 13:57	11/16/21 16:29	1
o-Terphenyl (Surr)	102		70 - 130	11/16/21 13:57	11/16/21 16:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	583		5.00	mg/Kg			11/23/21 17:36	1

Client Sample ID: C-1259

Lab Sample ID: 890-1573-18

Date Collected: 11/15/21 10:17

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 10:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 10:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 10:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/16/21 10:07	11/18/21 10:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 10:20	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/16/21 10:07	11/18/21 10:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	11/16/21 10:07	11/18/21 10:20	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/16/21 10:07	11/18/21 10:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1259

Lab Sample ID: 890-1573-18

Date Collected: 11/15/21 10:17

Matrix: Solid

Date Received: 11/15/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		11/16/21 13:57	11/16/21 17:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 17:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 17:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			11/16/21 13:57	11/16/21 17:35	1
o-Terphenyl (Surr)	104		70 - 130			11/16/21 13:57	11/16/21 17:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		4.96	mg/Kg			11/23/21 17:48	1

Client Sample ID: C-1260

Lab Sample ID: 890-1573-19

Date Collected: 11/15/21 10:18

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 10:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 10:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 10:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/16/21 10:07	11/18/21 10:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 10:47	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/16/21 10:07	11/18/21 10:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			11/16/21 10:07	11/18/21 10:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130			11/16/21 10:07	11/18/21 10:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *	49.8	mg/Kg		11/16/21 13:57	11/16/21 17:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/16/21 13:57	11/16/21 17:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1260

Lab Sample ID: 890-1573-19

Date Collected: 11/15/21 10:18

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/16/21 13:57	11/16/21 17:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			11/16/21 13:57	11/16/21 17:57	1
o-Terphenyl (Surr)	118		70 - 130			11/16/21 13:57	11/16/21 17:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1410		5.00	mg/Kg			11/23/21 17:59	1

Client Sample ID: C-1261

Lab Sample ID: 890-1573-20

Date Collected: 11/15/21 10:19

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:07	11/18/21 11:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:07	11/18/21 11:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:07	11/18/21 11:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/16/21 10:07	11/18/21 11:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/16/21 10:07	11/18/21 11:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/16/21 10:07	11/18/21 11:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			11/16/21 10:07	11/18/21 11:14	1
1,4-Difluorobenzene (Surr)	114		70 - 130			11/16/21 10:07	11/18/21 11:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		11/16/21 13:57	11/16/21 18:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 13:57	11/16/21 18:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 13:57	11/16/21 18:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			11/16/21 13:57	11/16/21 18:19	1
o-Terphenyl (Surr)	100		70 - 130			11/16/21 13:57	11/16/21 18:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2710		24.9	mg/Kg			11/23/21 18:11	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1262

Lab Sample ID: 890-1573-21

Date Collected: 11/15/21 10:20

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 16:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 16:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 16:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/19/21 09:00	11/19/21 16:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 16:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/19/21 09:00	11/19/21 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	11/19/21 09:00	11/19/21 16:45	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/19/21 09:00	11/19/21 16:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *	49.8	mg/Kg		11/16/21 13:57	11/16/21 18:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/16/21 13:57	11/16/21 18:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/16/21 13:57	11/16/21 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	11/16/21 13:57	11/16/21 18:41	1
o-Terphenyl (Surr)	92		70 - 130	11/16/21 13:57	11/16/21 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	441	F1	4.95	mg/Kg			11/23/21 11:29	1

Client Sample ID: C-1263

Lab Sample ID: 890-1573-22

Date Collected: 11/15/21 10:21

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 17:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 17:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 17:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/19/21 09:00	11/19/21 17:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 17:06	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/19/21 09:00	11/19/21 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	11/19/21 09:00	11/19/21 17:06	1
1,4-Difluorobenzene (Surr)	112		70 - 130	11/19/21 09:00	11/19/21 17:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1263

Lab Sample ID: 890-1573-22

Date Collected: 11/15/21 10:21

Matrix: Solid

Date Received: 11/15/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *	49.7	mg/Kg		11/16/21 13:57	11/16/21 19:03	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		11/16/21 13:57	11/16/21 19:03	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		11/16/21 13:57	11/16/21 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			11/16/21 13:57	11/16/21 19:03	1
o-Terphenyl (Surr)	114		70 - 130			11/16/21 13:57	11/16/21 19:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		5.04	mg/Kg			11/23/21 11:51	1

Client Sample ID: C-1264

Lab Sample ID: 890-1573-23

Date Collected: 11/15/21 10:22

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/19/21 09:00	11/19/21 17:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/19/21 09:00	11/19/21 17:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/19/21 09:00	11/19/21 17:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		11/19/21 09:00	11/19/21 17:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/19/21 09:00	11/19/21 17:26	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		11/19/21 09:00	11/19/21 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			11/19/21 09:00	11/19/21 17:26	1
1,4-Difluorobenzene (Surr)	81		70 - 130			11/19/21 09:00	11/19/21 17:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *	49.8	mg/Kg		11/16/21 13:57	11/16/21 19:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/16/21 13:57	11/16/21 19:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1264

Lab Sample ID: 890-1573-23

Date Collected: 11/15/21 10:22

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/16/21 13:57	11/16/21 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			11/16/21 13:57	11/16/21 19:25	1
o-Terphenyl (Surr)	103		70 - 130			11/16/21 13:57	11/16/21 19:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	418		4.99	mg/Kg			11/23/21 11:59	1

Client Sample ID: C-1265

Lab Sample ID: 890-1573-24

Date Collected: 11/15/21 10:23

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/19/21 09:00	11/19/21 17:46	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/19/21 09:00	11/19/21 17:46	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/19/21 09:00	11/19/21 17:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/19/21 09:00	11/19/21 17:46	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/19/21 09:00	11/19/21 17:46	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/19/21 09:00	11/19/21 17:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			11/19/21 09:00	11/19/21 17:46	1
1,4-Difluorobenzene (Surr)	88		70 - 130			11/19/21 09:00	11/19/21 17:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		11/16/21 13:57	11/16/21 19:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 19:47	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 19:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			11/16/21 13:57	11/16/21 19:47	1
o-Terphenyl (Surr)	95		70 - 130			11/16/21 13:57	11/16/21 19:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.5		4.98	mg/Kg			11/23/21 12:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1266

Lab Sample ID: 890-1573-25

Date Collected: 11/15/21 10:24

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 18:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 18:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 18:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/19/21 09:00	11/19/21 18:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 18:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/19/21 09:00	11/19/21 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	11/19/21 09:00	11/19/21 18:07	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/19/21 09:00	11/19/21 18:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *	49.8	mg/Kg		11/16/21 13:57	11/16/21 20:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/16/21 13:57	11/16/21 20:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/16/21 13:57	11/16/21 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130	11/16/21 13:57	11/16/21 20:09	1
o-Terphenyl (Surr)	122		70 - 130	11/16/21 13:57	11/16/21 20:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		4.97	mg/Kg			11/23/21 12:13	1

Client Sample ID: C-1267

Lab Sample ID: 890-1573-26

Date Collected: 11/15/21 10:25

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 18:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 18:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 18:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/19/21 09:00	11/19/21 18:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 18:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/19/21 09:00	11/19/21 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/19/21 09:00	11/19/21 18:27	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/19/21 09:00	11/19/21 18:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1267

Lab Sample ID: 890-1573-26

Date Collected: 11/15/21 10:25

Matrix: Solid

Date Received: 11/15/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9	mg/Kg		11/16/21 13:57	11/16/21 20:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 20:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 20:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			11/16/21 13:57	11/16/21 20:31	1
o-Terphenyl (Surr)	96		70 - 130			11/16/21 13:57	11/16/21 20:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.3		4.95	mg/Kg			11/23/21 15:32	1

Client Sample ID: C-1268

Lab Sample ID: 890-1573-27

Date Collected: 11/15/21 10:26

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/19/21 09:00	11/19/21 18:48	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/19/21 09:00	11/19/21 18:48	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/19/21 09:00	11/19/21 18:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/19/21 09:00	11/19/21 18:48	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/19/21 09:00	11/19/21 18:48	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/19/21 09:00	11/19/21 18:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			11/19/21 09:00	11/19/21 18:48	1
1,4-Difluorobenzene (Surr)	86		70 - 130			11/19/21 09:00	11/19/21 18:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0	mg/Kg		11/16/21 13:57	11/16/21 21:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 13:57	11/16/21 21:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1268

Lab Sample ID: 890-1573-27

Date Collected: 11/15/21 10:26

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 13:57	11/16/21 21:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			11/16/21 13:57	11/16/21 21:15	1
o-Terphenyl (Surr)	90		70 - 130			11/16/21 13:57	11/16/21 21:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	340		4.95	mg/Kg			11/23/21 15:39	1

Client Sample ID: C-1269

Lab Sample ID: 890-1573-28

Date Collected: 11/15/21 10:27

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 19:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 19:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 19:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/19/21 09:00	11/19/21 19:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 19:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/19/21 09:00	11/19/21 19:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			11/19/21 09:00	11/19/21 19:08	1
1,4-Difluorobenzene (Surr)	85		70 - 130			11/19/21 09:00	11/19/21 19:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		11/16/21 13:57	11/16/21 21:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 21:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 21:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			11/16/21 13:57	11/16/21 21:36	1
o-Terphenyl (Surr)	91		70 - 130			11/16/21 13:57	11/16/21 21:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	521		4.96	mg/Kg			11/23/21 15:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1270

Lab Sample ID: 890-1573-29

Date Collected: 11/15/21 10:28

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 19:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 19:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 19:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/19/21 09:00	11/19/21 19:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 19:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/19/21 09:00	11/19/21 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	11/19/21 09:00	11/19/21 19:28	1
1,4-Difluorobenzene (Surr)	70		70 - 130	11/19/21 09:00	11/19/21 19:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		11/16/21 13:57	11/16/21 21:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 13:57	11/16/21 21:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 13:57	11/16/21 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	11/16/21 13:57	11/16/21 21:58	1
o-Terphenyl (Surr)	102		70 - 130	11/16/21 13:57	11/16/21 21:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	641		5.02	mg/Kg			11/23/21 15:54	1

Client Sample ID: C-1271

Lab Sample ID: 890-1573-30

Date Collected: 11/15/21 10:29

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 19:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 19:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 19:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/19/21 09:00	11/19/21 19:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 19:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/19/21 09:00	11/19/21 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	11/19/21 09:00	11/19/21 19:49	1
1,4-Difluorobenzene (Surr)	92		70 - 130	11/19/21 09:00	11/19/21 19:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1271

Lab Sample ID: 890-1573-30

Date Collected: 11/15/21 10:29

Matrix: Solid

Date Received: 11/15/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		11/16/21 13:57	11/16/21 22:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 22:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 22:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			11/16/21 13:57	11/16/21 22:20	1
o-Terphenyl (Surr)	101		70 - 130			11/16/21 13:57	11/16/21 22:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		24.9	mg/Kg			11/23/21 16:02	5

Client Sample ID: C-1272

Lab Sample ID: 890-1573-31

Date Collected: 11/15/21 10:30

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/17/21 10:11	11/17/21 14:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/17/21 10:11	11/17/21 14:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/17/21 10:11	11/17/21 14:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/17/21 10:11	11/17/21 14:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/17/21 10:11	11/17/21 14:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/17/21 10:11	11/17/21 14:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			11/17/21 10:11	11/17/21 14:01	1
1,4-Difluorobenzene (Surr)	89		70 - 130			11/17/21 10:11	11/17/21 14:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		11/16/21 13:57	11/16/21 22:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 13:57	11/16/21 22:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1272

Lab Sample ID: 890-1573-31

Date Collected: 11/15/21 10:30

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 13:57	11/16/21 22:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			11/16/21 13:57	11/16/21 22:42	1
o-Terphenyl (Surr)	98		70 - 130			11/16/21 13:57	11/16/21 22:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	388	F1	4.99	mg/Kg			11/23/21 16:09	1

Client Sample ID: C-1273

Lab Sample ID: 890-1573-32

Date Collected: 11/15/21 10:31

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/17/21 10:11	11/17/21 14:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/17/21 10:11	11/17/21 14:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/17/21 10:11	11/17/21 14:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/17/21 10:11	11/17/21 14:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/17/21 10:11	11/17/21 14:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/17/21 10:11	11/17/21 14:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			11/17/21 10:11	11/17/21 14:21	1
1,4-Difluorobenzene (Surr)	94		70 - 130			11/17/21 10:11	11/17/21 14:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *	49.8	mg/Kg		11/16/21 13:57	11/16/21 23:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/16/21 13:57	11/16/21 23:04	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/16/21 13:57	11/16/21 23:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			11/16/21 13:57	11/16/21 23:04	1
o-Terphenyl (Surr)	102		70 - 130			11/16/21 13:57	11/16/21 23:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	517		5.01	mg/Kg			11/23/21 16:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1274

Lab Sample ID: 890-1573-33

Date Collected: 11/15/21 10:32

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/17/21 10:11	11/17/21 14:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/17/21 10:11	11/17/21 14:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/17/21 10:11	11/17/21 14:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/17/21 10:11	11/17/21 14:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/17/21 10:11	11/17/21 14:42	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/17/21 10:11	11/17/21 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	11/17/21 10:11	11/17/21 14:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/17/21 10:11	11/17/21 14:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		11/16/21 13:57	11/16/21 23:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 23:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	11/16/21 13:57	11/16/21 23:25	1
o-Terphenyl (Surr)	96		70 - 130	11/16/21 13:57	11/16/21 23:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		4.97	mg/Kg			11/23/21 16:38	1

Client Sample ID: C-1275

Lab Sample ID: 890-1573-34

Date Collected: 11/15/21 10:33

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/17/21 10:11	11/17/21 15:02	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/17/21 10:11	11/17/21 15:02	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/17/21 10:11	11/17/21 15:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/17/21 10:11	11/17/21 15:02	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/17/21 10:11	11/17/21 15:02	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/17/21 10:11	11/17/21 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	11/17/21 10:11	11/17/21 15:02	1
1,4-Difluorobenzene (Surr)	72		70 - 130	11/17/21 10:11	11/17/21 15:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1275

Lab Sample ID: 890-1573-34

Date Collected: 11/15/21 10:33

Matrix: Solid

Date Received: 11/15/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		11/16/21 13:57	11/16/21 23:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 23:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/16/21 23:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			11/16/21 13:57	11/16/21 23:47	1
o-Terphenyl (Surr)	100		70 - 130			11/16/21 13:57	11/16/21 23:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5130		24.8	mg/Kg			11/23/21 17:01	5

Client Sample ID: C-1276

Lab Sample ID: 890-1573-35

Date Collected: 11/15/21 10:34

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/17/21 10:11	11/17/21 15:23	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/17/21 10:11	11/17/21 15:23	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/17/21 10:11	11/17/21 15:23	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/17/21 10:11	11/17/21 15:23	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/17/21 10:11	11/17/21 15:23	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/17/21 10:11	11/17/21 15:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			11/17/21 10:11	11/17/21 15:23	1
1,4-Difluorobenzene (Surr)	89		70 - 130			11/17/21 10:11	11/17/21 15:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		11/16/21 13:57	11/17/21 00:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/17/21 00:08	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1276

Lab Sample ID: 890-1573-35

Date Collected: 11/15/21 10:34

Matrix: Solid

Date Received: 11/15/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/16/21 13:57	11/17/21 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	11/16/21 13:57	11/17/21 00:08	1
o-Terphenyl (Surr)	89		70 - 130	11/16/21 13:57	11/17/21 00:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470		4.98	mg/Kg			11/23/21 17:08	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1573-1	C-1242	140 S1+	104
890-1573-2	C-1243	122	112
890-1573-3	C-1244	108	97
890-1573-4	C-1245	152 S1+	128
890-1573-5	C-1246	101	100
890-1573-6	C-1247	121	114
890-1573-7	C-1248	180 S1+	91
890-1573-8	C-1249	122	116
890-1573-9	C-1250	102	105
890-1573-10	C-1251	101	97
890-1573-11	C-1252	161 S1+	100
890-1573-11 MS	C-1252	112	115
890-1573-11 MSD	C-1252	106	106
890-1573-12	C-1253	201 S1+	88
890-1573-13	C-1254	116	115
890-1573-14	C-1255	108	114
890-1573-15	C-1256	106	114
890-1573-16	C-1257	105	116
890-1573-17	C-1258	115	102
890-1573-18	C-1259	100	93
890-1573-19	C-1260	107	97
890-1573-20	C-1261	125	114
890-1573-21	C-1262	124	102
890-1573-22	C-1263	141 S1+	112
890-1573-23	C-1264	115	81
890-1573-24	C-1265	122	88
890-1573-25	C-1266	125	99
890-1573-26	C-1267	116	102
890-1573-27	C-1268	132 S1+	86
890-1573-28	C-1269	118	85
890-1573-29	C-1270	113	70
890-1573-30	C-1271	122	92
890-1573-31	C-1272	123	89
890-1573-31 MS	C-1272	130	103
890-1573-31 MSD	C-1272	122	103
890-1573-32	C-1273	121	94
890-1573-33	C-1274	131 S1+	102
890-1573-34	C-1275	102	72
890-1573-35	C-1276	122	89
890-1601-A-1-A MS	Matrix Spike	114	107
890-1601-A-1-B MSD	Matrix Spike Duplicate	117	104
LCS 880-12432/1-A	Lab Control Sample	109	114
LCS 880-12433/1-A	Lab Control Sample	111	113
LCS 880-12436/1-A	Lab Control Sample	118	96
LCS 880-12680/1-A	Lab Control Sample	113	108
LCSD 880-12432/2-A	Lab Control Sample Dup	92	118
LCSD 880-12433/2-A	Lab Control Sample Dup	110	112
LCSD 880-12436/2-A	Lab Control Sample Dup	112	98
LCSD 880-12680/2-A	Lab Control Sample Dup	107	105

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1573-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
MB 880-12432/5-A	Method Blank	67 S1-	100
MB 880-12433/5-A	Method Blank	71	102
MB 880-12436/5-A	Method Blank	122	103
MB 880-12680/5-A	Method Blank	99	102
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1573-1	C-1242	106	131 S1+
890-1573-1 MS	C-1242	115	104
890-1573-1 MSD	C-1242	125	117
890-1573-2	C-1243	118	146 S1+
890-1573-3	C-1244	101	120
890-1573-4	C-1245	113	124
890-1573-5	C-1246	83	86
890-1573-6	C-1247	84	86
890-1573-7	C-1248	66 S1-	68 S1-
890-1573-8	C-1249	85	88
890-1573-9	C-1250	78	80
890-1573-10	C-1251	86	91
890-1573-11	C-1252	71	71
890-1573-12	C-1253	76	75
890-1573-13	C-1254	83	83
890-1573-14	C-1255	85	87
890-1573-15	C-1256	87	93
890-1573-16	C-1257	88	92
890-1573-17	C-1258	94	102
890-1573-17 MS	C-1258	96	98
890-1573-17 MSD	C-1258	117	119
890-1573-18	C-1259	97	104
890-1573-19	C-1260	113	118
890-1573-20	C-1261	92	100
890-1573-21	C-1262	88	92
890-1573-22	C-1263	112	114
890-1573-23	C-1264	95	103
890-1573-24	C-1265	91	95
890-1573-25	C-1266	118	122
890-1573-26	C-1267	92	96
890-1573-27	C-1268	86	90
890-1573-28	C-1269	87	91
890-1573-29	C-1270	95	102
890-1573-30	C-1271	94	101
890-1573-31	C-1272	90	98
890-1573-32	C-1273	97	102

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1573-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1573-33	C-1274	91	96
890-1573-34	C-1275	94	100
890-1573-35	C-1276	87	89
LCS 880-12449/2-A	Lab Control Sample	86	98
LCS 880-12474/2-A	Lab Control Sample	96	92
LCSD 880-12449/3-A	Lab Control Sample Dup	79	91
LCSD 880-12474/3-A	Lab Control Sample Dup	141 S1+	148 S1+
MB 880-12449/1-A	Method Blank	103	115
MB 880-12474/1-A	Method Blank	123	136 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12432/5-A

Matrix: Solid

Analysis Batch: 12513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12432

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/17/21 17:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/17/21 17:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/17/21 17:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/16/21 10:05	11/17/21 17:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:05	11/17/21 17:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/16/21 10:05	11/17/21 17:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	11/16/21 10:05	11/17/21 17:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/16/21 10:05	11/17/21 17:19	1

Lab Sample ID: LCS 880-12432/1-A

Matrix: Solid

Analysis Batch: 12513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1169		mg/Kg		117	70 - 130
Toluene	0.100	0.1063		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1084		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2401		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: LCSD 880-12432/2-A

Matrix: Solid

Analysis Batch: 12513

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12432

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1083		mg/Kg		108	70 - 130	8	35
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	3	35
Ethylbenzene	0.100	0.1098		mg/Kg		110	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2380		mg/Kg		119	70 - 130	1	35
o-Xylene	0.100	0.1146		mg/Kg		115	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: MB 880-12433/5-A

Matrix: Solid

Analysis Batch: 12513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12433

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 06:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 06:47	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-12433/5-A

Matrix: Solid

Analysis Batch: 12513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12433

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 06:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/16/21 10:07	11/18/21 06:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/16/21 10:07	11/18/21 06:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/16/21 10:07	11/18/21 06:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	11/16/21 10:07	11/18/21 06:47	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/16/21 10:07	11/18/21 06:47	1

Lab Sample ID: LCS 880-12433/1-A

Matrix: Solid

Analysis Batch: 12513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1073		mg/Kg		107	70 - 130
Toluene	0.100	0.09747		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09764		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2163		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1043		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-12433/2-A

Matrix: Solid

Analysis Batch: 12513

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12433

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1097		mg/Kg		110	70 - 130	2	35
Toluene	0.100	0.08774		mg/Kg		88	70 - 130	10	35
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2244		mg/Kg		112	70 - 130	4	35
o-Xylene	0.100	0.1071		mg/Kg		107	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-1573-11 MS

Matrix: Solid

Analysis Batch: 12513

Client Sample ID: C-1252

Prep Type: Total/NA

Prep Batch: 12433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.0996	0.05595	F1	mg/Kg		56	70 - 130
Toluene	<0.00200	U F1	0.0996	0.05177	F1	mg/Kg		52	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.05430	F1	mg/Kg		55	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.1211	F1	mg/Kg		61	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1573-11 MS

Matrix: Solid

Analysis Batch: 12513

Client Sample ID: C-1252

Prep Type: Total/NA

Prep Batch: 12433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	<0.00200	U F1	0.0996	0.06053	F1	mg/Kg		61	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 890-1573-11 MSD

Matrix: Solid

Analysis Batch: 12513

Client Sample ID: C-1252

Prep Type: Total/NA

Prep Batch: 12433

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U F1	0.101	0.06950	F1	mg/Kg		69	70 - 130	22	35
Toluene	<0.00200	U F1	0.101	0.06400	F1	mg/Kg		63	70 - 130	21	35
Ethylbenzene	<0.00200	U F1	0.101	0.06577	F1	mg/Kg		65	70 - 130	19	35
m-Xylene & p-Xylene	<0.00401	U F1	0.202	0.1450		mg/Kg		72	70 - 130	18	35
o-Xylene	<0.00200	U F1	0.101	0.07128		mg/Kg		71	70 - 130	16	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-12436/5-A

Matrix: Solid

Analysis Batch: 12499

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12436

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/17/21 10:11	11/17/21 13:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/17/21 10:11	11/17/21 13:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/17/21 10:11	11/17/21 13:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/17/21 10:11	11/17/21 13:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/17/21 10:11	11/17/21 13:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/17/21 10:11	11/17/21 13:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	11/17/21 10:11	11/17/21 13:32	1
1,4-Difluorobenzene (Surr)	103		70 - 130	11/17/21 10:11	11/17/21 13:32	1

Lab Sample ID: LCS 880-12436/1-A

Matrix: Solid

Analysis Batch: 12499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07333		mg/Kg		73	70 - 130
Toluene	0.100	0.08622		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.09167		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1797		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08797		mg/Kg		88	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-12436/1-A

Matrix: Solid

Analysis Batch: 12499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12436

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-12436/2-A

Matrix: Solid

Analysis Batch: 12499

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12436

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07423		mg/Kg		74	70 - 130	1	35
Toluene	0.100	0.08825		mg/Kg		88	70 - 130	2	35
Ethylbenzene	0.100	0.09292		mg/Kg		93	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1800		mg/Kg		90	70 - 130	0	35
o-Xylene	0.100	0.08949		mg/Kg		89	70 - 130	2	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-1573-31 MS

Matrix: Solid

Analysis Batch: 12499

Client Sample ID: C-1272

Prep Type: Total/NA

Prep Batch: 12436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0996	0.07595		mg/Kg		75	70 - 130
Toluene	<0.00200	U	0.0996	0.08237		mg/Kg		83	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.07426		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1525		mg/Kg		76	70 - 130
o-Xylene	<0.00200	U	0.0996	0.07690		mg/Kg		77	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1573-31 MSD

Matrix: Solid

Analysis Batch: 12499

Client Sample ID: C-1272

Prep Type: Total/NA

Prep Batch: 12436

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.08963		mg/Kg		89	70 - 130	17	35
Toluene	<0.00200	U	0.0998	0.08378		mg/Kg		84	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0998	0.07603		mg/Kg		76	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1493		mg/Kg		74	70 - 130	2	35
o-Xylene	<0.00200	U	0.0998	0.07387		mg/Kg		74	70 - 130	4	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-12680/5-A

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12680

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/19/21 09:00	11/19/21 11:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	11/19/21 09:00	11/19/21 11:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/19/21 09:00	11/19/21 11:57	1

Lab Sample ID: LCS 880-12680/1-A

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1051		mg/Kg		105	70 - 130
Toluene	0.100	0.09765		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09849		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-12680/2-A

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12680

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1012		mg/Kg		101	70 - 130	4	35
Toluene	0.100	0.09172		mg/Kg		92	70 - 130	6	35
Ethylbenzene	0.100	0.09052		mg/Kg		91	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1898		mg/Kg		95	70 - 130	8	35
o-Xylene	0.100	0.09443		mg/Kg		94	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-1601-A-1-B MSD

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.1064		mg/Kg					
Toluene	<0.00200	U	0.0990	0.09949		mg/Kg					

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1601-A-1-B MSD

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00200	U	0.0990	0.1001		mg/Kg					
m-Xylene & p-Xylene	<0.00399	U	0.198	0.2116		mg/Kg					
o-Xylene	<0.00200	U	0.0990	0.1045		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-1601-A-1-A MS

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12449/1-A

Matrix: Solid

Analysis Batch: 12464

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12449

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/16/21 13:57	11/16/21 15:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 13:57	11/16/21 15:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 13:57	11/16/21 15:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	11/16/21 13:57	11/16/21 15:23	1
o-Terphenyl (Surr)	115		70 - 130	11/16/21 13:57	11/16/21 15:23	1

Lab Sample ID: LCS 880-12449/2-A

Matrix: Solid

Analysis Batch: 12464

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	715.5		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	1000	930.0		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	86		70 - 130
o-Terphenyl (Surr)	98		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-12449/3-A

Matrix: Solid

Analysis Batch: 12464

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12449

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	657.5	*-	mg/Kg		66	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	831.3		mg/Kg		83	70 - 130	11	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	79		70 - 130						
o-Terphenyl (Surr)	91		70 - 130						

Lab Sample ID: 890-1573-17 MS

Matrix: Solid

Analysis Batch: 12464

Client Sample ID: C-1258

Prep Type: Total/NA

Prep Batch: 12449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	997	956.0		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F2	997	813.5		mg/Kg		80	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	96		70 - 130								
o-Terphenyl (Surr)	98		70 - 130								

Lab Sample ID: 890-1573-17 MSD

Matrix: Solid

Analysis Batch: 12464

Client Sample ID: C-1258

Prep Type: Total/NA

Prep Batch: 12449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	998	1137		mg/Kg		114	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<50.0	U F2	998	1010	F2	mg/Kg		100	70 - 130	22	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	117		70 - 130								
o-Terphenyl (Surr)	119		70 - 130								

Lab Sample ID: MB 880-12474/1-A

Matrix: Solid

Analysis Batch: 12398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12474

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/16/21 21:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/16/21 21:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/21 16:02	11/16/21 21:00	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-12474/1-A

Matrix: Solid

Analysis Batch: 12398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12474

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane (Surr)	123		70 - 130	11/16/21 16:02	11/16/21 21:00	1				
o-Terphenyl (Surr)	136	S1+	70 - 130	11/16/21 16:02	11/16/21 21:00	1				

Lab Sample ID: LCS 880-12474/2-A

Matrix: Solid

Analysis Batch: 12398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12474

			Spike	LCS	LCS						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	911.3		mg/Kg		91		70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1027		mg/Kg		103		70 - 130	
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	96		70 - 130								
o-Terphenyl (Surr)	92		70 - 130								

Lab Sample ID: LCSD 880-12474/3-A

Matrix: Solid

Analysis Batch: 12398

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12474

			Spike	LCSD	LCSD							
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	792.5		mg/Kg		79		70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	958.7		mg/Kg		96		70 - 130	7	20
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	141	S1+	70 - 130									
o-Terphenyl (Surr)	148	S1+	70 - 130									

Lab Sample ID: 890-1573-1 MS

Matrix: Solid

Analysis Batch: 12398

Client Sample ID: C-1242

Prep Type: Total/NA

Prep Batch: 12474

	Sample	Sample	Spike	MS	MS							
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	984.8		mg/Kg		97		70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	927.5		mg/Kg		91		70 - 130		
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	115		70 - 130									
o-Terphenyl (Surr)	104		70 - 130									

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1573-1 MSD

Matrix: Solid

Analysis Batch: 12398

Client Sample ID: C-1242

Prep Type: Total/NA

Prep Batch: 12474

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1005		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1030		mg/Kg		101	70 - 130	10	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	125		70 - 130								
o-Terphenyl (Surr)	117		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12589/1-A

Matrix: Solid

Analysis Batch: 12961

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/23/21 11:07	1

Lab Sample ID: LCS 880-12589/2-A

Matrix: Solid

Analysis Batch: 12961

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	256.5		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-12589/3-A

Matrix: Solid

Analysis Batch: 12961

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	256.4		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-1573-21 MS

Matrix: Solid

Analysis Batch: 12961

Client Sample ID: C-1262

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	441	F1	248	653.7	F1	mg/Kg		86	90 - 110

Lab Sample ID: 890-1573-21 MSD

Matrix: Solid

Analysis Batch: 12961

Client Sample ID: C-1262

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	441	F1	248	654.8	F1	mg/Kg		87	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1573-31 MS

Matrix: Solid

Analysis Batch: 12961

Client Sample ID: C-1272

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	388	F1	250	608.2	F1	mg/Kg		88	90 - 110

Lab Sample ID: 890-1573-31 MSD

Matrix: Solid

Analysis Batch: 12961

Client Sample ID: C-1272

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	388	F1	250	608.7	F1	mg/Kg		88	90 - 110	0	20

Lab Sample ID: MB 880-12591/1-A

Matrix: Solid

Analysis Batch: 13067

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/23/21 12:28	1

Lab Sample ID: LCS 880-12591/2-A

Matrix: Solid

Analysis Batch: 13067

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	249.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-12591/3-A

Matrix: Solid

Analysis Batch: 13067

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1573-1 MS

Matrix: Solid

Analysis Batch: 13067

Client Sample ID: C-1242

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	458	F1	248	677.7	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-1573-1 MSD

Matrix: Solid

Analysis Batch: 13067

Client Sample ID: C-1242

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	458	F1	248	678.2	F1	mg/Kg		89	90 - 110	0	20

Lab Sample ID: 890-1573-11 MS

Matrix: Solid

Analysis Batch: 13067

Client Sample ID: C-1252

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1470		250	1647	E 4	mg/Kg		71	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1573-11 MSD

Client Sample ID: C-1252

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 13067

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1470		250	1647	E 4	mg/Kg		71	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

GC VOA

Prep Batch: 12432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-1	C-1242	Total/NA	Solid	5035	
890-1573-2	C-1243	Total/NA	Solid	5035	
890-1573-3	C-1244	Total/NA	Solid	5035	
890-1573-4	C-1245	Total/NA	Solid	5035	
890-1573-5	C-1246	Total/NA	Solid	5035	
890-1573-6	C-1247	Total/NA	Solid	5035	
890-1573-7	C-1248	Total/NA	Solid	5035	
890-1573-8	C-1249	Total/NA	Solid	5035	
890-1573-9	C-1250	Total/NA	Solid	5035	
890-1573-10	C-1251	Total/NA	Solid	5035	
MB 880-12432/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12432/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12432/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 12433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-11	C-1252	Total/NA	Solid	5035	
890-1573-12	C-1253	Total/NA	Solid	5035	
890-1573-13	C-1254	Total/NA	Solid	5035	
890-1573-14	C-1255	Total/NA	Solid	5035	
890-1573-15	C-1256	Total/NA	Solid	5035	
890-1573-16	C-1257	Total/NA	Solid	5035	
890-1573-17	C-1258	Total/NA	Solid	5035	
890-1573-18	C-1259	Total/NA	Solid	5035	
890-1573-19	C-1260	Total/NA	Solid	5035	
890-1573-20	C-1261	Total/NA	Solid	5035	
MB 880-12433/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12433/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12433/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1573-11 MS	C-1252	Total/NA	Solid	5035	
890-1573-11 MSD	C-1252	Total/NA	Solid	5035	

Prep Batch: 12436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-31	C-1272	Total/NA	Solid	5035	
890-1573-32	C-1273	Total/NA	Solid	5035	
890-1573-33	C-1274	Total/NA	Solid	5035	
890-1573-34	C-1275	Total/NA	Solid	5035	
890-1573-35	C-1276	Total/NA	Solid	5035	
MB 880-12436/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12436/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12436/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1573-31 MS	C-1272	Total/NA	Solid	5035	
890-1573-31 MSD	C-1272	Total/NA	Solid	5035	

Analysis Batch: 12499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-31	C-1272	Total/NA	Solid	8021B	12436
890-1573-32	C-1273	Total/NA	Solid	8021B	12436
890-1573-33	C-1274	Total/NA	Solid	8021B	12436
890-1573-34	C-1275	Total/NA	Solid	8021B	12436

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 12499 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-35	C-1276	Total/NA	Solid	8021B	12436
MB 880-12436/5-A	Method Blank	Total/NA	Solid	8021B	12436
LCS 880-12436/1-A	Lab Control Sample	Total/NA	Solid	8021B	12436
LCSD 880-12436/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12436
890-1573-31 MS	C-1272	Total/NA	Solid	8021B	12436
890-1573-31 MSD	C-1272	Total/NA	Solid	8021B	12436

Analysis Batch: 12513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-1	C-1242	Total/NA	Solid	8021B	12432
890-1573-2	C-1243	Total/NA	Solid	8021B	12432
890-1573-3	C-1244	Total/NA	Solid	8021B	12432
890-1573-4	C-1245	Total/NA	Solid	8021B	12432
890-1573-5	C-1246	Total/NA	Solid	8021B	12432
890-1573-6	C-1247	Total/NA	Solid	8021B	12432
890-1573-7	C-1248	Total/NA	Solid	8021B	12432
890-1573-8	C-1249	Total/NA	Solid	8021B	12432
890-1573-9	C-1250	Total/NA	Solid	8021B	12432
890-1573-10	C-1251	Total/NA	Solid	8021B	12432
890-1573-11	C-1252	Total/NA	Solid	8021B	12433
890-1573-12	C-1253	Total/NA	Solid	8021B	12433
890-1573-13	C-1254	Total/NA	Solid	8021B	12433
890-1573-14	C-1255	Total/NA	Solid	8021B	12433
890-1573-15	C-1256	Total/NA	Solid	8021B	12433
890-1573-16	C-1257	Total/NA	Solid	8021B	12433
890-1573-17	C-1258	Total/NA	Solid	8021B	12433
890-1573-18	C-1259	Total/NA	Solid	8021B	12433
890-1573-19	C-1260	Total/NA	Solid	8021B	12433
890-1573-20	C-1261	Total/NA	Solid	8021B	12433
MB 880-12432/5-A	Method Blank	Total/NA	Solid	8021B	12432
MB 880-12433/5-A	Method Blank	Total/NA	Solid	8021B	12433
LCS 880-12432/1-A	Lab Control Sample	Total/NA	Solid	8021B	12432
LCS 880-12433/1-A	Lab Control Sample	Total/NA	Solid	8021B	12433
LCSD 880-12432/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12432
LCSD 880-12433/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12433
890-1573-11 MS	C-1252	Total/NA	Solid	8021B	12433
890-1573-11 MSD	C-1252	Total/NA	Solid	8021B	12433

Prep Batch: 12680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-21	C-1262	Total/NA	Solid	5035	
890-1573-22	C-1263	Total/NA	Solid	5035	
890-1573-23	C-1264	Total/NA	Solid	5035	
890-1573-24	C-1265	Total/NA	Solid	5035	
890-1573-25	C-1266	Total/NA	Solid	5035	
890-1573-26	C-1267	Total/NA	Solid	5035	
890-1573-27	C-1268	Total/NA	Solid	5035	
890-1573-28	C-1269	Total/NA	Solid	5035	
890-1573-29	C-1270	Total/NA	Solid	5035	
890-1573-30	C-1271	Total/NA	Solid	5035	
MB 880-12680/5-A	Method Blank	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 12680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-12680/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12680/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1601-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 12714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-21	C-1262	Total/NA	Solid	8021B	12680
890-1573-22	C-1263	Total/NA	Solid	8021B	12680
890-1573-23	C-1264	Total/NA	Solid	8021B	12680
890-1573-24	C-1265	Total/NA	Solid	8021B	12680
890-1573-25	C-1266	Total/NA	Solid	8021B	12680
890-1573-26	C-1267	Total/NA	Solid	8021B	12680
890-1573-27	C-1268	Total/NA	Solid	8021B	12680
890-1573-28	C-1269	Total/NA	Solid	8021B	12680
890-1573-29	C-1270	Total/NA	Solid	8021B	12680
890-1573-30	C-1271	Total/NA	Solid	8021B	12680
MB 880-12680/5-A	Method Blank	Total/NA	Solid	8021B	12680
LCS 880-12680/1-A	Lab Control Sample	Total/NA	Solid	8021B	12680
LCSD 880-12680/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12680
890-1601-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1601-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	12680

Analysis Batch: 12945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-1	C-1242	Total/NA	Solid	Total BTEX	
890-1573-2	C-1243	Total/NA	Solid	Total BTEX	
890-1573-3	C-1244	Total/NA	Solid	Total BTEX	
890-1573-4	C-1245	Total/NA	Solid	Total BTEX	
890-1573-5	C-1246	Total/NA	Solid	Total BTEX	
890-1573-6	C-1247	Total/NA	Solid	Total BTEX	
890-1573-7	C-1248	Total/NA	Solid	Total BTEX	
890-1573-8	C-1249	Total/NA	Solid	Total BTEX	
890-1573-9	C-1250	Total/NA	Solid	Total BTEX	
890-1573-10	C-1251	Total/NA	Solid	Total BTEX	
890-1573-11	C-1252	Total/NA	Solid	Total BTEX	
890-1573-12	C-1253	Total/NA	Solid	Total BTEX	
890-1573-13	C-1254	Total/NA	Solid	Total BTEX	
890-1573-14	C-1255	Total/NA	Solid	Total BTEX	
890-1573-15	C-1256	Total/NA	Solid	Total BTEX	
890-1573-16	C-1257	Total/NA	Solid	Total BTEX	
890-1573-17	C-1258	Total/NA	Solid	Total BTEX	
890-1573-18	C-1259	Total/NA	Solid	Total BTEX	
890-1573-19	C-1260	Total/NA	Solid	Total BTEX	
890-1573-20	C-1261	Total/NA	Solid	Total BTEX	
890-1573-21	C-1262	Total/NA	Solid	Total BTEX	
890-1573-22	C-1263	Total/NA	Solid	Total BTEX	
890-1573-23	C-1264	Total/NA	Solid	Total BTEX	
890-1573-24	C-1265	Total/NA	Solid	Total BTEX	
890-1573-25	C-1266	Total/NA	Solid	Total BTEX	
890-1573-26	C-1267	Total/NA	Solid	Total BTEX	
890-1573-27	C-1268	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 12945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-28	C-1269	Total/NA	Solid	Total BTEX	
890-1573-29	C-1270	Total/NA	Solid	Total BTEX	
890-1573-30	C-1271	Total/NA	Solid	Total BTEX	
890-1573-31	C-1272	Total/NA	Solid	Total BTEX	
890-1573-32	C-1273	Total/NA	Solid	Total BTEX	
890-1573-33	C-1274	Total/NA	Solid	Total BTEX	
890-1573-34	C-1275	Total/NA	Solid	Total BTEX	
890-1573-35	C-1276	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 12398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-1	C-1242	Total/NA	Solid	8015B NM	12474
890-1573-2	C-1243	Total/NA	Solid	8015B NM	12474
890-1573-3	C-1244	Total/NA	Solid	8015B NM	12474
890-1573-4	C-1245	Total/NA	Solid	8015B NM	12474
890-1573-5	C-1246	Total/NA	Solid	8015B NM	12474
890-1573-6	C-1247	Total/NA	Solid	8015B NM	12474
890-1573-7	C-1248	Total/NA	Solid	8015B NM	12474
890-1573-8	C-1249	Total/NA	Solid	8015B NM	12474
890-1573-9	C-1250	Total/NA	Solid	8015B NM	12474
890-1573-10	C-1251	Total/NA	Solid	8015B NM	12474
890-1573-11	C-1252	Total/NA	Solid	8015B NM	12474
890-1573-12	C-1253	Total/NA	Solid	8015B NM	12474
890-1573-13	C-1254	Total/NA	Solid	8015B NM	12474
890-1573-14	C-1255	Total/NA	Solid	8015B NM	12474
890-1573-15	C-1256	Total/NA	Solid	8015B NM	12474
890-1573-16	C-1257	Total/NA	Solid	8015B NM	12474
MB 880-12474/1-A	Method Blank	Total/NA	Solid	8015B NM	12474
LCS 880-12474/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12474
LCSD 880-12474/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12474
890-1573-1 MS	C-1242	Total/NA	Solid	8015B NM	12474
890-1573-1 MSD	C-1242	Total/NA	Solid	8015B NM	12474

Prep Batch: 12449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-17	C-1258	Total/NA	Solid	8015NM Prep	
890-1573-18	C-1259	Total/NA	Solid	8015NM Prep	
890-1573-19	C-1260	Total/NA	Solid	8015NM Prep	
890-1573-20	C-1261	Total/NA	Solid	8015NM Prep	
890-1573-21	C-1262	Total/NA	Solid	8015NM Prep	
890-1573-22	C-1263	Total/NA	Solid	8015NM Prep	
890-1573-23	C-1264	Total/NA	Solid	8015NM Prep	
890-1573-24	C-1265	Total/NA	Solid	8015NM Prep	
890-1573-25	C-1266	Total/NA	Solid	8015NM Prep	
890-1573-26	C-1267	Total/NA	Solid	8015NM Prep	
890-1573-27	C-1268	Total/NA	Solid	8015NM Prep	
890-1573-28	C-1269	Total/NA	Solid	8015NM Prep	
890-1573-29	C-1270	Total/NA	Solid	8015NM Prep	
890-1573-30	C-1271	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 12449 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-31	C-1272	Total/NA	Solid	8015NM Prep	
890-1573-32	C-1273	Total/NA	Solid	8015NM Prep	
890-1573-33	C-1274	Total/NA	Solid	8015NM Prep	
890-1573-34	C-1275	Total/NA	Solid	8015NM Prep	
890-1573-35	C-1276	Total/NA	Solid	8015NM Prep	
MB 880-12449/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12449/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12449/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1573-17 MS	C-1258	Total/NA	Solid	8015NM Prep	
890-1573-17 MSD	C-1258	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-17	C-1258	Total/NA	Solid	8015B NM	12449
890-1573-18	C-1259	Total/NA	Solid	8015B NM	12449
890-1573-19	C-1260	Total/NA	Solid	8015B NM	12449
890-1573-20	C-1261	Total/NA	Solid	8015B NM	12449
890-1573-21	C-1262	Total/NA	Solid	8015B NM	12449
890-1573-22	C-1263	Total/NA	Solid	8015B NM	12449
890-1573-23	C-1264	Total/NA	Solid	8015B NM	12449
890-1573-24	C-1265	Total/NA	Solid	8015B NM	12449
890-1573-25	C-1266	Total/NA	Solid	8015B NM	12449
890-1573-26	C-1267	Total/NA	Solid	8015B NM	12449
890-1573-27	C-1268	Total/NA	Solid	8015B NM	12449
890-1573-28	C-1269	Total/NA	Solid	8015B NM	12449
890-1573-29	C-1270	Total/NA	Solid	8015B NM	12449
890-1573-30	C-1271	Total/NA	Solid	8015B NM	12449
890-1573-31	C-1272	Total/NA	Solid	8015B NM	12449
890-1573-32	C-1273	Total/NA	Solid	8015B NM	12449
890-1573-33	C-1274	Total/NA	Solid	8015B NM	12449
890-1573-34	C-1275	Total/NA	Solid	8015B NM	12449
890-1573-35	C-1276	Total/NA	Solid	8015B NM	12449
MB 880-12449/1-A	Method Blank	Total/NA	Solid	8015B NM	12449
LCS 880-12449/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12449
LCSD 880-12449/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12449
890-1573-17 MS	C-1258	Total/NA	Solid	8015B NM	12449
890-1573-17 MSD	C-1258	Total/NA	Solid	8015B NM	12449

Prep Batch: 12474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-1	C-1242	Total/NA	Solid	8015NM Prep	
890-1573-2	C-1243	Total/NA	Solid	8015NM Prep	
890-1573-3	C-1244	Total/NA	Solid	8015NM Prep	
890-1573-4	C-1245	Total/NA	Solid	8015NM Prep	
890-1573-5	C-1246	Total/NA	Solid	8015NM Prep	
890-1573-6	C-1247	Total/NA	Solid	8015NM Prep	
890-1573-7	C-1248	Total/NA	Solid	8015NM Prep	
890-1573-8	C-1249	Total/NA	Solid	8015NM Prep	
890-1573-9	C-1250	Total/NA	Solid	8015NM Prep	
890-1573-10	C-1251	Total/NA	Solid	8015NM Prep	
890-1573-11	C-1252	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 12474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-12	C-1253	Total/NA	Solid	8015NM Prep	
890-1573-13	C-1254	Total/NA	Solid	8015NM Prep	
890-1573-14	C-1255	Total/NA	Solid	8015NM Prep	
890-1573-15	C-1256	Total/NA	Solid	8015NM Prep	
890-1573-16	C-1257	Total/NA	Solid	8015NM Prep	
MB 880-12474/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12474/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12474/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1573-1 MS	C-1242	Total/NA	Solid	8015NM Prep	
890-1573-1 MSD	C-1242	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-1	C-1242	Total/NA	Solid	8015 NM	
890-1573-2	C-1243	Total/NA	Solid	8015 NM	
890-1573-3	C-1244	Total/NA	Solid	8015 NM	
890-1573-4	C-1245	Total/NA	Solid	8015 NM	
890-1573-5	C-1246	Total/NA	Solid	8015 NM	
890-1573-6	C-1247	Total/NA	Solid	8015 NM	
890-1573-7	C-1248	Total/NA	Solid	8015 NM	
890-1573-8	C-1249	Total/NA	Solid	8015 NM	
890-1573-9	C-1250	Total/NA	Solid	8015 NM	
890-1573-10	C-1251	Total/NA	Solid	8015 NM	
890-1573-11	C-1252	Total/NA	Solid	8015 NM	
890-1573-12	C-1253	Total/NA	Solid	8015 NM	
890-1573-13	C-1254	Total/NA	Solid	8015 NM	
890-1573-14	C-1255	Total/NA	Solid	8015 NM	
890-1573-15	C-1256	Total/NA	Solid	8015 NM	
890-1573-16	C-1257	Total/NA	Solid	8015 NM	
890-1573-17	C-1258	Total/NA	Solid	8015 NM	
890-1573-18	C-1259	Total/NA	Solid	8015 NM	
890-1573-19	C-1260	Total/NA	Solid	8015 NM	
890-1573-20	C-1261	Total/NA	Solid	8015 NM	
890-1573-21	C-1262	Total/NA	Solid	8015 NM	
890-1573-22	C-1263	Total/NA	Solid	8015 NM	
890-1573-23	C-1264	Total/NA	Solid	8015 NM	
890-1573-24	C-1265	Total/NA	Solid	8015 NM	
890-1573-25	C-1266	Total/NA	Solid	8015 NM	
890-1573-26	C-1267	Total/NA	Solid	8015 NM	
890-1573-27	C-1268	Total/NA	Solid	8015 NM	
890-1573-28	C-1269	Total/NA	Solid	8015 NM	
890-1573-29	C-1270	Total/NA	Solid	8015 NM	
890-1573-30	C-1271	Total/NA	Solid	8015 NM	
890-1573-31	C-1272	Total/NA	Solid	8015 NM	
890-1573-32	C-1273	Total/NA	Solid	8015 NM	
890-1573-33	C-1274	Total/NA	Solid	8015 NM	
890-1573-34	C-1275	Total/NA	Solid	8015 NM	
890-1573-35	C-1276	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 12589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-21	C-1262	Soluble	Solid	DI Leach	
890-1573-22	C-1263	Soluble	Solid	DI Leach	
890-1573-23	C-1264	Soluble	Solid	DI Leach	
890-1573-24	C-1265	Soluble	Solid	DI Leach	
890-1573-25	C-1266	Soluble	Solid	DI Leach	
890-1573-26	C-1267	Soluble	Solid	DI Leach	
890-1573-27	C-1268	Soluble	Solid	DI Leach	
890-1573-28	C-1269	Soluble	Solid	DI Leach	
890-1573-29	C-1270	Soluble	Solid	DI Leach	
890-1573-30	C-1271	Soluble	Solid	DI Leach	
890-1573-31	C-1272	Soluble	Solid	DI Leach	
890-1573-32	C-1273	Soluble	Solid	DI Leach	
890-1573-33	C-1274	Soluble	Solid	DI Leach	
890-1573-34	C-1275	Soluble	Solid	DI Leach	
890-1573-35	C-1276	Soluble	Solid	DI Leach	
MB 880-12589/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12589/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12589/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1573-21 MS	C-1262	Soluble	Solid	DI Leach	
890-1573-21 MSD	C-1262	Soluble	Solid	DI Leach	
890-1573-31 MS	C-1272	Soluble	Solid	DI Leach	
890-1573-31 MSD	C-1272	Soluble	Solid	DI Leach	

Leach Batch: 12591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-1	C-1242	Soluble	Solid	DI Leach	
890-1573-2	C-1243	Soluble	Solid	DI Leach	
890-1573-3	C-1244	Soluble	Solid	DI Leach	
890-1573-4	C-1245	Soluble	Solid	DI Leach	
890-1573-5	C-1246	Soluble	Solid	DI Leach	
890-1573-6	C-1247	Soluble	Solid	DI Leach	
890-1573-7	C-1248	Soluble	Solid	DI Leach	
890-1573-8	C-1249	Soluble	Solid	DI Leach	
890-1573-9	C-1250	Soluble	Solid	DI Leach	
890-1573-10	C-1251	Soluble	Solid	DI Leach	
890-1573-11	C-1252	Soluble	Solid	DI Leach	
890-1573-12	C-1253	Soluble	Solid	DI Leach	
890-1573-13	C-1254	Soluble	Solid	DI Leach	
890-1573-14	C-1255	Soluble	Solid	DI Leach	
890-1573-15	C-1256	Soluble	Solid	DI Leach	
890-1573-16	C-1257	Soluble	Solid	DI Leach	
890-1573-17	C-1258	Soluble	Solid	DI Leach	
890-1573-18	C-1259	Soluble	Solid	DI Leach	
890-1573-19	C-1260	Soluble	Solid	DI Leach	
890-1573-20	C-1261	Soluble	Solid	DI Leach	
MB 880-12591/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12591/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12591/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1573-1 MS	C-1242	Soluble	Solid	DI Leach	
890-1573-1 MSD	C-1242	Soluble	Solid	DI Leach	
890-1573-11 MS	C-1252	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 12591 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-11 MSD	C-1252	Soluble	Solid	DI Leach	

Analysis Batch: 12961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-21	C-1262	Soluble	Solid	300.0	12589
890-1573-22	C-1263	Soluble	Solid	300.0	12589
890-1573-23	C-1264	Soluble	Solid	300.0	12589
890-1573-24	C-1265	Soluble	Solid	300.0	12589
890-1573-25	C-1266	Soluble	Solid	300.0	12589
890-1573-26	C-1267	Soluble	Solid	300.0	12589
890-1573-27	C-1268	Soluble	Solid	300.0	12589
890-1573-28	C-1269	Soluble	Solid	300.0	12589
890-1573-29	C-1270	Soluble	Solid	300.0	12589
890-1573-30	C-1271	Soluble	Solid	300.0	12589
890-1573-31	C-1272	Soluble	Solid	300.0	12589
890-1573-32	C-1273	Soluble	Solid	300.0	12589
890-1573-33	C-1274	Soluble	Solid	300.0	12589
890-1573-34	C-1275	Soluble	Solid	300.0	12589
890-1573-35	C-1276	Soluble	Solid	300.0	12589
MB 880-12589/1-A	Method Blank	Soluble	Solid	300.0	12589
LCS 880-12589/2-A	Lab Control Sample	Soluble	Solid	300.0	12589
LCSD 880-12589/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12589
890-1573-21 MS	C-1262	Soluble	Solid	300.0	12589
890-1573-21 MSD	C-1262	Soluble	Solid	300.0	12589
890-1573-31 MS	C-1272	Soluble	Solid	300.0	12589
890-1573-31 MSD	C-1272	Soluble	Solid	300.0	12589

Analysis Batch: 13067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1573-1	C-1242	Soluble	Solid	300.0	12591
890-1573-2	C-1243	Soluble	Solid	300.0	12591
890-1573-3	C-1244	Soluble	Solid	300.0	12591
890-1573-4	C-1245	Soluble	Solid	300.0	12591
890-1573-5	C-1246	Soluble	Solid	300.0	12591
890-1573-6	C-1247	Soluble	Solid	300.0	12591
890-1573-7	C-1248	Soluble	Solid	300.0	12591
890-1573-8	C-1249	Soluble	Solid	300.0	12591
890-1573-9	C-1250	Soluble	Solid	300.0	12591
890-1573-10	C-1251	Soluble	Solid	300.0	12591
890-1573-11	C-1252	Soluble	Solid	300.0	12591
890-1573-12	C-1253	Soluble	Solid	300.0	12591
890-1573-13	C-1254	Soluble	Solid	300.0	12591
890-1573-14	C-1255	Soluble	Solid	300.0	12591
890-1573-15	C-1256	Soluble	Solid	300.0	12591
890-1573-16	C-1257	Soluble	Solid	300.0	12591
890-1573-17	C-1258	Soluble	Solid	300.0	12591
890-1573-18	C-1259	Soluble	Solid	300.0	12591
890-1573-19	C-1260	Soluble	Solid	300.0	12591
890-1573-20	C-1261	Soluble	Solid	300.0	12591
MB 880-12591/1-A	Method Blank	Soluble	Solid	300.0	12591
LCS 880-12591/2-A	Lab Control Sample	Soluble	Solid	300.0	12591

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 13067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-12591/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12591
890-1573-1 MS	C-1242	Soluble	Solid	300.0	12591
890-1573-1 MSD	C-1242	Soluble	Solid	300.0	12591
890-1573-11 MS	C-1252	Soluble	Solid	300.0	12591
890-1573-11 MSD	C-1252	Soluble	Solid	300.0	12591

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1242

Lab Sample ID: 890-1573-1

Date Collected: 11/15/21 10:00

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12432	11/16/21 10:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/17/21 23:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/16/21 22:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 13:02	SC	XEN MID

Client Sample ID: C-1243

Lab Sample ID: 890-1573-2

Date Collected: 11/15/21 10:01

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12432	11/16/21 10:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/17/21 23:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/16/21 23:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 13:37	SC	XEN MID

Client Sample ID: C-1244

Lab Sample ID: 890-1573-3

Date Collected: 11/15/21 10:02

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	12432	11/16/21 10:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 00:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/16/21 23:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 13:48	SC	XEN MID

Client Sample ID: C-1245

Lab Sample ID: 890-1573-4

Date Collected: 11/15/21 10:03

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12432	11/16/21 10:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 00:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1245

Date Collected: 11/15/21 10:03

Date Received: 11/15/21 15:35

Lab Sample ID: 890-1573-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/16/21 23:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 13:59	SC	XEN MID

Client Sample ID: C-1246

Date Collected: 11/15/21 10:04

Date Received: 11/15/21 15:35

Lab Sample ID: 890-1573-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	12432	11/16/21 10:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 01:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/17/21 00:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 14:11	SC	XEN MID

Client Sample ID: C-1247

Date Collected: 11/15/21 10:05

Date Received: 11/15/21 15:35

Lab Sample ID: 890-1573-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12432	11/16/21 10:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 01:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/17/21 00:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		5			13067	11/23/21 14:45	SC	XEN MID

Client Sample ID: C-1248

Date Collected: 11/15/21 10:06

Date Received: 11/15/21 15:35

Lab Sample ID: 890-1573-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12432	11/16/21 10:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 01:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/17/21 00:48	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1248

Date Collected: 11/15/21 10:06

Date Received: 11/15/21 15:35

Lab Sample ID: 890-1573-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 14:56	SC	XEN MID

Client Sample ID: C-1249

Date Collected: 11/15/21 10:07

Date Received: 11/15/21 15:35

Lab Sample ID: 890-1573-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	12432	11/16/21 10:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 02:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/17/21 01:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 15:08	SC	XEN MID

Client Sample ID: C-1250

Date Collected: 11/15/21 10:08

Date Received: 11/15/21 15:35

Lab Sample ID: 890-1573-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	12432	11/16/21 10:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 02:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/17/21 01:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		5			13067	11/23/21 15:19	SC	XEN MID

Client Sample ID: C-1251

Date Collected: 11/15/21 10:09

Date Received: 11/15/21 15:35

Lab Sample ID: 890-1573-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12432	11/16/21 10:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 03:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/17/21 01:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		5			13067	11/23/21 15:31	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1252

Lab Sample ID: 890-1573-11

Date Collected: 11/15/21 10:10

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12433	11/16/21 10:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 07:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/17/21 02:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 15:42	SC	XEN MID

Client Sample ID: C-1253

Lab Sample ID: 890-1573-12

Date Collected: 11/15/21 10:11

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	12433	11/16/21 10:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 07:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/17/21 02:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 16:16	SC	XEN MID

Client Sample ID: C-1254

Lab Sample ID: 890-1573-13

Date Collected: 11/15/21 10:12

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12433	11/16/21 10:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 08:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/17/21 03:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 16:28	SC	XEN MID

Client Sample ID: C-1255

Lab Sample ID: 890-1573-14

Date Collected: 11/15/21 10:13

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12433	11/16/21 10:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 08:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1255

Lab Sample ID: 890-1573-14

Date Collected: 11/15/21 10:13

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/17/21 03:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		5			13067	11/23/21 17:02	SC	XEN MID

Client Sample ID: C-1256

Lab Sample ID: 890-1573-15

Date Collected: 11/15/21 10:14

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12433	11/16/21 10:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 08:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/17/21 03:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		5			13067	11/23/21 17:13	SC	XEN MID

Client Sample ID: C-1257

Lab Sample ID: 890-1573-16

Date Collected: 11/15/21 10:15

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	12433	11/16/21 10:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 09:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12474	11/16/21 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12398	11/17/21 04:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		5			13067	11/23/21 17:25	SC	XEN MID

Client Sample ID: C-1258

Lab Sample ID: 890-1573-17

Date Collected: 11/15/21 10:16

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12433	11/16/21 10:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 09:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 16:29	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1258

Lab Sample ID: 890-1573-17

Date Collected: 11/15/21 10:16

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 17:36	SC	XEN MID

Client Sample ID: C-1259

Lab Sample ID: 890-1573-18

Date Collected: 11/15/21 10:17

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12433	11/16/21 10:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 10:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 17:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 17:48	SC	XEN MID

Client Sample ID: C-1260

Lab Sample ID: 890-1573-19

Date Collected: 11/15/21 10:18

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12433	11/16/21 10:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 10:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 17:57	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		1			13067	11/23/21 17:59	SC	XEN MID

Client Sample ID: C-1261

Lab Sample ID: 890-1573-20

Date Collected: 11/15/21 10:19

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12433	11/16/21 10:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12513	11/18/21 11:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 18:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12591	11/17/21 16:18	CA	XEN MID
Soluble	Analysis	300.0		5			13067	11/23/21 18:11	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1262

Lab Sample ID: 890-1573-21

Date Collected: 11/15/21 10:20

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12680	11/19/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 16:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 11:29	SC	XEN MID

Client Sample ID: C-1263

Lab Sample ID: 890-1573-22

Date Collected: 11/15/21 10:21

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12680	11/19/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 17:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 11:51	SC	XEN MID

Client Sample ID: C-1264

Lab Sample ID: 890-1573-23

Date Collected: 11/15/21 10:22

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	12680	11/19/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 17:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 19:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 11:59	SC	XEN MID

Client Sample ID: C-1265

Lab Sample ID: 890-1573-24

Date Collected: 11/15/21 10:23

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	12680	11/19/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 17:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1265

Lab Sample ID: 890-1573-24

Date Collected: 11/15/21 10:23

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 19:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 12:06	SC	XEN MID

Client Sample ID: C-1266

Lab Sample ID: 890-1573-25

Date Collected: 11/15/21 10:24

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12680	11/19/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 18:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 20:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 12:13	SC	XEN MID

Client Sample ID: C-1267

Lab Sample ID: 890-1573-26

Date Collected: 11/15/21 10:25

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12680	11/19/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 18:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 20:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 15:32	SC	XEN MID

Client Sample ID: C-1268

Lab Sample ID: 890-1573-27

Date Collected: 11/15/21 10:26

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	12680	11/19/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 18:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 21:15	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1268

Lab Sample ID: 890-1573-27

Date Collected: 11/15/21 10:26

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 15:39	SC	XEN MID

Client Sample ID: C-1269

Lab Sample ID: 890-1573-28

Date Collected: 11/15/21 10:27

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12680	11/19/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 19:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 21:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 15:47	SC	XEN MID

Client Sample ID: C-1270

Lab Sample ID: 890-1573-29

Date Collected: 11/15/21 10:28

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12680	11/19/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 19:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 21:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 15:54	SC	XEN MID

Client Sample ID: C-1271

Lab Sample ID: 890-1573-30

Date Collected: 11/15/21 10:29

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12680	11/19/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 19:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 22:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		5			12961	11/23/21 16:02	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1272

Lab Sample ID: 890-1573-31

Date Collected: 11/15/21 10:30

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12436	11/17/21 10:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/17/21 14:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 22:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 16:09	SC	XEN MID

Client Sample ID: C-1273

Lab Sample ID: 890-1573-32

Date Collected: 11/15/21 10:31

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12436	11/17/21 10:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/17/21 14:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 23:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 16:31	SC	XEN MID

Client Sample ID: C-1274

Lab Sample ID: 890-1573-33

Date Collected: 11/15/21 10:32

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12436	11/17/21 10:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/17/21 14:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 23:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 16:38	SC	XEN MID

Client Sample ID: C-1275

Lab Sample ID: 890-1573-34

Date Collected: 11/15/21 10:33

Matrix: Solid

Date Received: 11/15/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	12436	11/17/21 10:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/17/21 15:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Client Sample ID: C-1275**Date Collected: 11/15/21 10:33****Date Received: 11/15/21 15:35****Lab Sample ID: 890-1573-34****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/16/21 23:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		5			12961	11/23/21 17:01	SC	XEN MID

Client Sample ID: C-1276**Date Collected: 11/15/21 10:34****Date Received: 11/15/21 15:35****Lab Sample ID: 890-1573-35****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	12436	11/17/21 10:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/17/21 15:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12449	11/16/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12464	11/17/21 00:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12589	11/17/21 16:09	CA	XEN MID
Soluble	Analysis	300.0		1			12961	11/23/21 17:08	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1573-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1573-1	C-1242	Solid	11/15/21 10:00	11/15/21 15:35
890-1573-2	C-1243	Solid	11/15/21 10:01	11/15/21 15:35
890-1573-3	C-1244	Solid	11/15/21 10:02	11/15/21 15:35
890-1573-4	C-1245	Solid	11/15/21 10:03	11/15/21 15:35
890-1573-5	C-1246	Solid	11/15/21 10:04	11/15/21 15:35
890-1573-6	C-1247	Solid	11/15/21 10:05	11/15/21 15:35
890-1573-7	C-1248	Solid	11/15/21 10:06	11/15/21 15:35
890-1573-8	C-1249	Solid	11/15/21 10:07	11/15/21 15:35
890-1573-9	C-1250	Solid	11/15/21 10:08	11/15/21 15:35
890-1573-10	C-1251	Solid	11/15/21 10:09	11/15/21 15:35
890-1573-11	C-1252	Solid	11/15/21 10:10	11/15/21 15:35
890-1573-12	C-1253	Solid	11/15/21 10:11	11/15/21 15:35
890-1573-13	C-1254	Solid	11/15/21 10:12	11/15/21 15:35
890-1573-14	C-1255	Solid	11/15/21 10:13	11/15/21 15:35
890-1573-15	C-1256	Solid	11/15/21 10:14	11/15/21 15:35
890-1573-16	C-1257	Solid	11/15/21 10:15	11/15/21 15:35
890-1573-17	C-1258	Solid	11/15/21 10:16	11/15/21 15:35
890-1573-18	C-1259	Solid	11/15/21 10:17	11/15/21 15:35
890-1573-19	C-1260	Solid	11/15/21 10:18	11/15/21 15:35
890-1573-20	C-1261	Solid	11/15/21 10:19	11/15/21 15:35
890-1573-21	C-1262	Solid	11/15/21 10:20	11/15/21 15:35
890-1573-22	C-1263	Solid	11/15/21 10:21	11/15/21 15:35
890-1573-23	C-1264	Solid	11/15/21 10:22	11/15/21 15:35
890-1573-24	C-1265	Solid	11/15/21 10:23	11/15/21 15:35
890-1573-25	C-1266	Solid	11/15/21 10:24	11/15/21 15:35
890-1573-26	C-1267	Solid	11/15/21 10:25	11/15/21 15:35
890-1573-27	C-1268	Solid	11/15/21 10:26	11/15/21 15:35
890-1573-28	C-1269	Solid	11/15/21 10:27	11/15/21 15:35
890-1573-29	C-1270	Solid	11/15/21 10:28	11/15/21 15:35
890-1573-30	C-1271	Solid	11/15/21 10:29	11/15/21 15:35
890-1573-31	C-1272	Solid	11/15/21 10:30	11/15/21 15:35
890-1573-32	C-1273	Solid	11/15/21 10:31	11/15/21 15:35
890-1573-33	C-1274	Solid	11/15/21 10:32	11/15/21 15:35
890-1573-34	C-1275	Solid	11/15/21 10:33	11/15/21 15:35
890-1573-35	C-1276	Solid	11/15/21 10:34	11/15/21 15:35

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No. 2176

CHAIN-OF-CUSTODY

Coating in Progress

Varson & Associates, Inc.
Environmental Consultants

507 N. Marrenfield, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 11-15-21
PO#:
PROJECT LOCATION OR NAME: Palma Aste
LAB PROJECT #: 21-0105-02 COLLECTOR: TP
LAB WORK ORDER#:
PAGE 2 OF 3

TRRP report? ☐ Yes ☒ No
TIME ZONE:
Time zone/State: MST/NA
S=SOIL W=WATER P=PAINT
A=AIR SL=SLUDGE OT=OTHER

PRESERVATION

HCl
HNO₃
H₂SO₄ ☐ NaOH ☒
ICE
UNPRESERVED

ANALYSES
BTEX & MTBE ☒
TPH 418.1 ☒ TPH 1008 ☒
GASOLINE MOD 8015 ☒
DIESEL - MOD 8015 ☒
OIL - MOD 8015 ☒
VOC 8260 ☒
SVOC 8270 ☒
8081 PESTICIDES ☒
8082 PCBs ☒
TCDF - METALS (RCRA) ☒
TCDF - PEST ☒
TOTAL METALS (RCRA) ☒
LEAD - TOTAL ☒
RCI ☒
TDS ☒
pH ☒
EXPLOSIVES ☒
CHLORIDE ☒
ANIONS ☒
ALKALINITY ☒
HOLDPAH ☒
TCDF VOC ☒
OTHER VOC ☒
D W 2008 ☒
FLASHPOINT ☒
% MOISTURE ☒
CYANIDE ☒
PECHLORATE ☒
JAL KALINITY ☒

FIELD NOTES

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐	NaOH ☒	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
C-1257		11-15-21	1015	S	1								
C-1258			1016										
C-1259			1017										
C-1260			1018										
C-1261			1019										
C-1262			1020										
C-1263			1021										
C-1264			1022										
C-1265			1023										
C-1266			1024										
C-1267			1025										
C-1268			1026										
C-1269			1027										
C-1270			1028										
C-1271			1029										
TOTAL	15												

RELINQUISHED BY (Signature) [Signature] DATE/TIME 11/15/21 3:35 RECEIVED BY (Signature) [Signature]
RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature)
RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature)
LABORATORY Varson TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐
LABORATORY USE ONLY:
RECEIVING TEMP 29.4 THERM# 1-11-11-11
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☒ NOT USED
☒ CARRIER BILL #
☒ HAND DELIVERED

[illegible]

Eurofins Xenco, Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact	Phone:		Taylor Holly		890-508-1
Shipping/Receiving	E-Mail:		holly.taylor@eurofinset.com	State of Origin: New Mexico	Page 1 of 4
Company				Accreditations Required (See note) NELAP - Louisiana NELAP - Texas	Job #: 890-1573-1
Address	Due Date Requested				
1211 W Florida Ave	11/19/2021				
City:	FAZ Requested (days):				
Midland					
State Zip					
TX 79701					
Phone	PO #				
432-704-5440(Tel)					
Email	WO #				
Project Name	Project #				
palmito ast	89000025				
Site	SSOW#				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Wastewat, B=Trace, A=Air)
C-1242 (890-1573-1)		11/15/21	10 00		Solid
C-1243 (890-1573-2)		11/15/21	10 01		Solid
C-1244 (890-1573-3)		11/15/21	10 02		Solid
C-1245 (890-1573-4)		11/15/21	10 03		Solid
C-1246 (890-1573-5)		11/15/21	10 04		Solid
C-1247 (890-1573-6)		11/15/21	10 05		Solid
C-1248 (890-1573-7)		11/15/21	10 06		Solid
C-1249 (890-1573-8)		11/15/21	10 07		Solid
C-1250 (890-1573-9)		11/15/21	10 08		Solid
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements			
Primary Deliverable Rank: 2					
Empty Kit Relinquished by	Date/Time	Date	Time	Method of Shipment:	Company
Relinquished by					
Relinquished by					
Relinquished by					
Custody Seals Intact:	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.			
Δ Yes Δ No					

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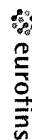
Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)				Sampler		Lab PM		Carrier/Tracking Mkt(s)		COC No	
Client Contact: Shipping/Receiving				Phone		Taylor, Holly				890-508 2	
Company: Eurofins Xenco				E-Mail		holly.taylor@eurofinsnet.com		State of Origin		Page 2 of 4	
Address: 1211 W Florida Ave				Due Date Requested		11/19/2021		Accreditations Required (See note)		Job #	
City: Midland				Date Requested (day)		11/19/2021		NE LAP - Louisiana NE LAP - Texas		890-1573-1	
State Zip TX 79701				PO #				Analysis Requested		Preservation Codes	
Phone 432-704-6440(Tel)				WO #						A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amchlor H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA Other:	
Project Name palmio ast				Project #		89000025				M. Hexane N. None O. AshNaO2 P. Na2O4S Q. Na2SO3 R. Na2SO3 S. H2SO4 T. TSP Dodecalyrate U. Acetone V. MCAA W. pH 4.5 Z. other (specify)	
Site S50W#											

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (In-house, S=Solid, O=Other, BT=Tissue, A=Ali)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8016MOD_Calc	300_ORGFm_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
C-1251 (890-1573-10)	11/15/21	10 09	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1252 (890-1573-11)	11/15/21	10 10	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1253 (890-1573-12)	11/15/21	10 11	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1254 (890-1573-13)	11/15/21	10 12	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1255 (890-1573-14)	11/15/21	10 13	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1256 (890-1573-15)	11/15/21	10 14	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1257 (890-1573-16)	11/15/21	10 15	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1258 (890-1573-17)	11/15/21	10 16	Mountain	Solid		X	X	X	X	X	X	X	1	
C-1259 (890-1573-18)	11/15/21	10 17	Mountain	Solid		X	X	X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)				Special Instructions/QC Requirements			
Empty Kit Relinquished by				Date			
Relinquished by				Date/Time			
Relinquished by				Date/Time			
Relinquished by				Date/Time			
Custody Seals Intact: Δ Yes Δ No				Custody Seal No			
Cooler Temperature(s) °C and Other Remarks:							

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact:	Phone	Taylor Holly			890-508.3
Shipping/Receiving	E-Mail	holly.taylor@eurofinsnet.com	State of Origin		Page: 3 of 4
Company	Accreditations Required (See note):	NEIAP - Louisiana NEIAP - Texas	New Mexico		Job #
Eurofins Xenco					890-1573-1
Address	Due Date Requested				
1211 W. Florida Ave	11/19/2021				
City	Field Requested (day):				
Midland					
State/Zip					
TX, 79701					
Phone	PO #				
432-704-5440(Tel)					
Email	WO #				
Project Name	Project #				
palmino ast	89000025				
Site	SSOW#				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=oil, BT=issue, A=air)
C-1260 (890-1573-19)		11/15/21	10 18		Solid
C-1261 (890-1573-20)		11/15/21	10 19		Solid
C-1262 (890-1573-21)		11/15/21	10 20		Solid
C-1263 (890-1573-22)		11/15/21	10 21		Solid
C-1264 (890-1573-23)		11/15/21	10 22		Solid
C-1265 (890-1573-24)		11/15/21	10 23		Solid
C-1266 (890-1573-25)		11/15/21	10 24		Solid
C-1267 (890-1573-26)		11/15/21	10 25		Solid
C-1268 (890-1573-27)		11/15/21	10 26		Solid
Analysis Requested					
Field Filtered Sample (Yes or No)					
Perform MS/MSD (Yes or No)					
8015MOD_NM/8016NM_S_Prep (MOD) Full TPH					
8015MOD_Calc					
300_ORGFM_28D/DI_LEACH Chloride					
8021B/5035FP_Calc (MOD) BTEX - LL					
Total_BTEX_GCV					
Total Number of containers					
Special Instructions/Note.					
A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amchlor H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA M. Hexane N. None O. AsH2O2 P. Na2OAS Q. Na2SO3 R. Na2SO3 S. -H2SO4 T. TSP Dodecylhydrate U. Acetone V. MCAA W. pH 4-5 Z. other (Specify)					
Sample Identification - Client ID (Lab ID)					
C-1260 (890-1573-19)		11/15/21	10 18		Solid
C-1261 (890-1573-20)		11/15/21	10 19		Solid
C-1262 (890-1573-21)		11/15/21	10 20		Solid
C-1263 (890-1573-22)		11/15/21	10 21		Solid
C-1264 (890-1573-23)		11/15/21	10 22		Solid
C-1265 (890-1573-24)		11/15/21	10 23		Solid
C-1266 (890-1573-25)		11/15/21	10 24		Solid
C-1267 (890-1573-26)		11/15/21	10 25		Solid
C-1268 (890-1573-27)		11/15/21	10 26		Solid
Deliverable Requested I II III IV Other (Specify)					
Primary Deliverable Rank 2					
Empty Kit Relinquished by					
Date/Time					
Company					
Relinquished by					
Date/Time					
Company					
Relinquished by					
Date/Time					
Company					
Custody Seals Intact					
Custody Seal No					
Cooler Temperature(s) °C and Other Remarks					

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No									
Client Contact:	Phone	Taylor Holly	State of Origin:	New Mexico	Page 4 of 4									
Shipping/Receiving	E-Mail	holly.taylor@eurofins.com	Accreditations Required (See note)	NE LAP - Louisiana NE LAP - Texas	Job #:									
Company					890-1573-1									
Eurofins Xenco														
Address	Due Date Requested	11/19/2021	Analysis Requested											
1211 W Florida Ave														
City:														
Midland														
State Zip:														
TX, 79701														
Phone	PO #:													
432-704-6440(Tel)														
Email	W/O #:													
Project Name:	Project #:	89000025												
palmlis ast	SSOW#:													
Site														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=soil, BI=Issue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGF28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
C-1269 (890-1573-28)	11/15/21	10 27	Mountain	Solid		X	X	X	X	X	X	1		
C-1270 (890-1573-29)	11/15/21	10 28	Mountain	Solid		X	X	X	X	X	X	1		
C-1271 (890-1573-30)	11/15/21	10 29	Mountain	Solid		X	X	X	X	X	X	1		
C-1272 (890-1573-31)	11/15/21	10 30	Mountain	Solid		X	X	X	X	X	X	1		
C-1273 (890-1573-32)	11/15/21	10 31	Mountain	Solid		X	X	X	X	X	X	1		
C-1274 (890-1573-33)	11/15/21	10 32	Mountain	Solid		X	X	X	X	X	X	1		
C-1275 (890-1573-34)	11/15/21	10 33	Mountain	Solid		X	X	X	X	X	X	1		
C-1276 (890-1573-35)	11/15/21	10 34	Mountain	Solid		X	X	X	X	X	X	1		
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I II III IV Other (Specify)														
Primary Deliverable Rank 2														
Special Instructions/QC Requirements														
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
Empty Kit Relinquished by														
Date/Time														
Company														
Relinquished by														
Date/Time														
Company														
Relinquished by														
Date/Time														
Company														
Custody Seals Intact: ☐ Yes ☐ No														
Custody Seal No														
Cooler Temperature(s) °C and Other Remarks:														

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1573-1

SDG Number: 21-0105-02

Login Number: 1573**List Number: 1****Creator: Olivas, Nathaniel****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1573-1

SDG Number: 21-0105-02

Login Number: 1573**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Xenco, Midland****List Creation: 11/16/21 01:15 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1577-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
11/29/2021 8:01:03 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1577-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Job ID: 890-1577-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1577-1

Comments

No additional comments.

Receipt

The samples were received on 11/16/2021 2:57 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 29.2° C.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: CCV biased low in the C6-C10 hydrocarbon range; another CCV was acceptable within the 12 hour window therefore the data was qualified and reported.

(CCV 880-12505/30)

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (MB 880-12588/1-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: The laboratory control sample (LCS) associated with preparation batch 880-12504 and analytical batch 880-12507 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12598 and analytical batch 880-13183 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: C-1281 (890-1577-5), C-1282 (890-1577-6), C-1284 (890-1577-8), C-1285 (890-1577-9) and C-1286 (890-1577-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1277

Lab Sample ID: 890-1577-1

Date Collected: 11/16/21 09:00

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/18/21 09:38	11/19/21 23:12	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/18/21 09:38	11/19/21 23:12	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/18/21 09:38	11/19/21 23:12	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		11/18/21 09:38	11/19/21 23:12	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/18/21 09:38	11/19/21 23:12	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		11/18/21 09:38	11/19/21 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	11/18/21 09:38	11/19/21 23:12	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/18/21 09:38	11/19/21 23:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/17/21 22:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/17/21 22:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/17/21 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	11/17/21 15:37	11/17/21 22:43	1
o-Terphenyl (Surr)	101		70 - 130	11/17/21 15:37	11/17/21 22:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235		4.98	mg/Kg			11/19/21 21:08	1

Client Sample ID: C-1278

Lab Sample ID: 890-1577-2

Date Collected: 11/16/21 09:01

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/19/21 23:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/19/21 23:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/19/21 23:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/18/21 09:38	11/19/21 23:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/19/21 23:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/18/21 09:38	11/19/21 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	11/18/21 09:38	11/19/21 23:32	1
1,4-Difluorobenzene (Surr)	78		70 - 130	11/18/21 09:38	11/19/21 23:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1278

Date Collected: 11/16/21 09:01

Date Received: 11/16/21 14:57

Lab Sample ID: 890-1577-2

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/17/21 15:37	11/17/21 23:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/17/21 15:37	11/17/21 23:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/17/21 15:37	11/17/21 23:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			11/17/21 15:37	11/17/21 23:43	1
o-Terphenyl (Surr)	107		70 - 130			11/17/21 15:37	11/17/21 23:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290	F1	4.99	mg/Kg			11/19/21 21:17	1

Client Sample ID: C-1279

Date Collected: 11/16/21 09:02

Date Received: 11/16/21 14:57

Lab Sample ID: 890-1577-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/19/21 23:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/19/21 23:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/19/21 23:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/18/21 09:38	11/19/21 23:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/19/21 23:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/18/21 09:38	11/19/21 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			11/18/21 09:38	11/19/21 23:53	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130			11/18/21 09:38	11/19/21 23:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/17/21 15:37	11/18/21 00:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/17/21 15:37	11/18/21 00:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1279

Lab Sample ID: 890-1577-3

Date Collected: 11/16/21 09:02

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/17/21 15:37	11/18/21 00:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			11/17/21 15:37	11/18/21 00:03	1
o-Terphenyl (Surr)	102		70 - 130			11/17/21 15:37	11/18/21 00:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		5.01	mg/Kg			11/19/21 21:45	1

Client Sample ID: C-1280

Lab Sample ID: 890-1577-4

Date Collected: 11/16/21 09:03

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 00:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 00:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 00:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/18/21 09:38	11/20/21 00:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 00:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/18/21 09:38	11/20/21 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			11/18/21 09:38	11/20/21 00:13	1
1,4-Difluorobenzene (Surr)	103		70 - 130			11/18/21 09:38	11/20/21 00:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/18/21 00:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/18/21 00:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/18/21 00:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			11/17/21 15:37	11/18/21 00:24	1
o-Terphenyl (Surr)	100		70 - 130			11/17/21 15:37	11/18/21 00:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		4.97	mg/Kg			11/19/21 21:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1281

Lab Sample ID: 890-1577-5

Date Collected: 11/16/21 09:04

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 00:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 00:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 00:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/18/21 09:38	11/20/21 00:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 00:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/18/21 09:38	11/20/21 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	11/18/21 09:38	11/20/21 00:34	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/18/21 09:38	11/20/21 00:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/17/21 15:37	11/18/21 00:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/17/21 15:37	11/18/21 00:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/17/21 15:37	11/18/21 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	11/17/21 15:37	11/18/21 00:44	1
o-Terphenyl (Surr)	99		70 - 130	11/17/21 15:37	11/18/21 00:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		4.97	mg/Kg			11/24/21 03:57	1

Client Sample ID: C-1282

Lab Sample ID: 890-1577-6

Date Collected: 11/16/21 09:05

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 00:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 00:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 00:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/18/21 09:38	11/20/21 00:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 00:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/18/21 09:38	11/20/21 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/18/21 09:38	11/20/21 00:54	1
1,4-Difluorobenzene (Surr)	110		70 - 130	11/18/21 09:38	11/20/21 00:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1282

Date Collected: 11/16/21 09:05

Date Received: 11/16/21 14:57

Lab Sample ID: 890-1577-6

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/18/21 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/18/21 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/18/21 01:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			11/17/21 15:37	11/18/21 01:04	1
o-Terphenyl (Surr)	116		70 - 130			11/17/21 15:37	11/18/21 01:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		4.95	mg/Kg			11/24/21 04:19	1

Client Sample ID: C-1283

Date Collected: 11/16/21 09:06

Date Received: 11/16/21 14:57

Lab Sample ID: 890-1577-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/18/21 09:38	11/20/21 01:14	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/18/21 09:38	11/20/21 01:14	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/18/21 09:38	11/20/21 01:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/18/21 09:38	11/20/21 01:14	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/18/21 09:38	11/20/21 01:14	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/18/21 09:38	11/20/21 01:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			11/18/21 09:38	11/20/21 01:14	1
1,4-Difluorobenzene (Surr)	102		70 - 130			11/18/21 09:38	11/20/21 01:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/18/21 01:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/18/21 01:24	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1283

Lab Sample ID: 890-1577-7

Date Collected: 11/16/21 09:06

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/18/21 01:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			11/17/21 15:37	11/18/21 01:24	1
o-Terphenyl (Surr)	107		70 - 130			11/17/21 15:37	11/18/21 01:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		4.95	mg/Kg			11/24/21 11:19	1

Client Sample ID: C-1284

Lab Sample ID: 890-1577-8

Date Collected: 11/16/21 09:07

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 01:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 01:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 01:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/18/21 09:38	11/20/21 01:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 01:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/18/21 09:38	11/20/21 01:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			11/18/21 09:38	11/20/21 01:35	1
1,4-Difluorobenzene (Surr)	96		70 - 130			11/18/21 09:38	11/20/21 01:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/17/21 15:37	11/18/21 01:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/17/21 15:37	11/18/21 01:45	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/17/21 15:37	11/18/21 01:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			11/17/21 15:37	11/18/21 01:45	1
o-Terphenyl (Surr)	100		70 - 130			11/17/21 15:37	11/18/21 01:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	453		4.96	mg/Kg			11/24/21 04:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1285

Lab Sample ID: 890-1577-9

Date Collected: 11/16/21 09:08

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 01:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 01:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 01:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/18/21 09:38	11/20/21 01:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 01:55	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/18/21 09:38	11/20/21 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	11/18/21 09:38	11/20/21 01:55	1
1,4-Difluorobenzene (Surr)	74		70 - 130	11/18/21 09:38	11/20/21 01:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/17/21 15:37	11/18/21 02:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/17/21 15:37	11/18/21 02:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/17/21 15:37	11/18/21 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	11/17/21 15:37	11/18/21 02:06	1
o-Terphenyl (Surr)	120		70 - 130	11/17/21 15:37	11/18/21 02:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		5.02	mg/Kg			11/24/21 04:40	1

Client Sample ID: C-1286

Lab Sample ID: 890-1577-10

Date Collected: 11/16/21 09:09

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 02:16	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 02:16	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 02:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/18/21 09:38	11/20/21 02:16	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 02:16	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/18/21 09:38	11/20/21 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	11/18/21 09:38	11/20/21 02:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130	11/18/21 09:38	11/20/21 02:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1286

Lab Sample ID: 890-1577-10

Date Collected: 11/16/21 09:09

Matrix: Solid

Date Received: 11/16/21 14:57

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/17/21 15:37	11/18/21 02:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/17/21 15:37	11/18/21 02:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/17/21 15:37	11/18/21 02:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			11/17/21 15:37	11/18/21 02:26	1
o-Terphenyl (Surr)	101		70 - 130			11/17/21 15:37	11/18/21 02:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.2		4.98	mg/Kg			11/24/21 04:47	1

Client Sample ID: C-1287

Lab Sample ID: 890-1577-11

Date Collected: 11/16/21 09:10

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 03:39	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 03:39	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 03:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		11/18/21 09:38	11/20/21 03:39	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 03:39	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		11/18/21 09:38	11/20/21 03:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			11/18/21 09:38	11/20/21 03:39	1
1,4-Difluorobenzene (Surr)	101		70 - 130			11/18/21 09:38	11/20/21 03:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/17/21 15:37	11/18/21 03:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/17/21 15:37	11/18/21 03:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1287

Lab Sample ID: 890-1577-11

Date Collected: 11/16/21 09:10

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/17/21 15:37	11/18/21 03:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			11/17/21 15:37	11/18/21 03:07	1
o-Terphenyl (Surr)	102		70 - 130			11/17/21 15:37	11/18/21 03:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		4.99	mg/Kg			11/24/21 04:55	1

Client Sample ID: C-1288

Lab Sample ID: 890-1577-12

Date Collected: 11/16/21 09:11

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 04:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 04:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 04:00	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		11/18/21 09:38	11/20/21 04:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 04:00	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		11/18/21 09:38	11/20/21 04:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			11/18/21 09:38	11/20/21 04:00	1
1,4-Difluorobenzene (Surr)	109		70 - 130			11/18/21 09:38	11/20/21 04:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0	mg/Kg		11/17/21 09:57	11/17/21 17:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		11/17/21 09:57	11/17/21 17:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/17/21 09:57	11/17/21 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			11/17/21 09:57	11/17/21 17:54	1
o-Terphenyl (Surr)	125		70 - 130			11/17/21 09:57	11/17/21 17:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		5.01	mg/Kg			11/24/21 05:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1048

Lab Sample ID: 890-1577-13

Date Collected: 11/16/21 11:00

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/18/21 09:38	11/20/21 04:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/18/21 09:38	11/20/21 04:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/18/21 09:38	11/20/21 04:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/18/21 09:38	11/20/21 04:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/18/21 09:38	11/20/21 04:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/18/21 09:38	11/20/21 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	11/18/21 09:38	11/20/21 04:20	1
1,4-Difluorobenzene (Surr)	84		70 - 130	11/18/21 09:38	11/20/21 04:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0	mg/Kg		11/17/21 09:57	11/17/21 18:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		11/17/21 09:57	11/17/21 18:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/17/21 09:57	11/17/21 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	11/17/21 09:57	11/17/21 18:15	1
o-Terphenyl (Surr)	104		70 - 130	11/17/21 09:57	11/17/21 18:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	813		4.97	mg/Kg			11/24/21 05:23	1

Client Sample ID: C-1050

Lab Sample ID: 890-1577-14

Date Collected: 11/16/21 11:01

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 04:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 04:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 04:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/18/21 09:38	11/20/21 04:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 04:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/18/21 09:38	11/20/21 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	11/18/21 09:38	11/20/21 04:41	1
1,4-Difluorobenzene (Surr)	80		70 - 130	11/18/21 09:38	11/20/21 04:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1050

Lab Sample ID: 890-1577-14

Date Collected: 11/16/21 11:01

Matrix: Solid

Date Received: 11/16/21 14:57

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0	mg/Kg		11/17/21 09:57	11/17/21 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		11/17/21 09:57	11/17/21 18:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/17/21 09:57	11/17/21 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			11/17/21 09:57	11/17/21 18:36	1
o-Terphenyl (Surr)	96		70 - 130			11/17/21 09:57	11/17/21 18:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	895		4.95	mg/Kg			11/24/21 05:45	1

Client Sample ID: C-1052

Lab Sample ID: 890-1577-15

Date Collected: 11/16/21 11:02

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/18/21 09:38	11/20/21 05:01	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/18/21 09:38	11/20/21 05:01	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/18/21 09:38	11/20/21 05:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/18/21 09:38	11/20/21 05:01	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/18/21 09:38	11/20/21 05:01	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/18/21 09:38	11/20/21 05:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			11/18/21 09:38	11/20/21 05:01	1
1,4-Difluorobenzene (Surr)	101		70 - 130			11/18/21 09:38	11/20/21 05:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0	mg/Kg		11/17/21 09:57	11/17/21 18:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		11/17/21 09:57	11/17/21 18:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1052

Lab Sample ID: 890-1577-15

Date Collected: 11/16/21 11:02

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/17/21 09:57	11/17/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			11/17/21 09:57	11/17/21 18:57	1
o-Terphenyl (Surr)	105		70 - 130			11/17/21 09:57	11/17/21 18:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	971		4.98	mg/Kg			11/24/21 05:52	1

Client Sample ID: C-1053

Lab Sample ID: 890-1577-16

Date Collected: 11/16/21 11:03

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 05:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 05:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 05:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/18/21 09:38	11/20/21 05:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/18/21 09:38	11/20/21 05:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/18/21 09:38	11/20/21 05:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			11/18/21 09:38	11/20/21 05:22	1
1,4-Difluorobenzene (Surr)	107		70 - 130			11/18/21 09:38	11/20/21 05:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *- *1	49.8	mg/Kg		11/17/21 09:57	11/17/21 19:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		11/17/21 09:57	11/17/21 19:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/17/21 09:57	11/17/21 19:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			11/17/21 09:57	11/17/21 19:18	1
o-Terphenyl (Surr)	122		70 - 130			11/17/21 09:57	11/17/21 19:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	571		5.00	mg/Kg			11/24/21 11:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1054

Lab Sample ID: 890-1577-17

Date Collected: 11/16/21 11:04

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/18/21 09:38	11/20/21 05:42	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/18/21 09:38	11/20/21 05:42	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/18/21 09:38	11/20/21 05:42	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/18/21 09:38	11/20/21 05:42	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/18/21 09:38	11/20/21 05:42	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/18/21 09:38	11/20/21 05:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	11/18/21 09:38	11/20/21 05:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/18/21 09:38	11/20/21 05:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U * - *1	49.9	mg/Kg		11/17/21 09:57	11/17/21 19:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		11/17/21 09:57	11/17/21 19:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/17/21 09:57	11/17/21 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	11/17/21 09:57	11/17/21 19:39	1
o-Terphenyl (Surr)	106		70 - 130	11/17/21 09:57	11/17/21 19:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	799		5.00	mg/Kg			11/24/21 06:06	1

Client Sample ID: C-1055

Lab Sample ID: 890-1577-18

Date Collected: 11/16/21 11:05

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 06:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 06:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 06:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/18/21 09:38	11/20/21 06:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/20/21 06:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/18/21 09:38	11/20/21 06:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	11/18/21 09:38	11/20/21 06:02	1
1,4-Difluorobenzene (Surr)	72		70 - 130	11/18/21 09:38	11/20/21 06:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1055

Lab Sample ID: 890-1577-18

Date Collected: 11/16/21 11:05

Matrix: Solid

Date Received: 11/16/21 14:57

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9	mg/Kg		11/17/21 09:57	11/17/21 19:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		11/17/21 09:57	11/17/21 19:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/17/21 09:57	11/17/21 19:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			11/17/21 09:57	11/17/21 19:59	1
o-Terphenyl (Surr)	105		70 - 130			11/17/21 09:57	11/17/21 19:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	892		4.96	mg/Kg			11/24/21 06:14	1

Client Sample ID: C-1056

Lab Sample ID: 890-1577-19

Date Collected: 11/16/21 11:06

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 06:23	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 06:23	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 06:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		11/18/21 09:38	11/20/21 06:23	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 06:23	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		11/18/21 09:38	11/20/21 06:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			11/18/21 09:38	11/20/21 06:23	1
1,4-Difluorobenzene (Surr)	78		70 - 130			11/18/21 09:38	11/20/21 06:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9	mg/Kg		11/17/21 09:57	11/17/21 20:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		11/17/21 09:57	11/17/21 20:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1056

Lab Sample ID: 890-1577-19

Date Collected: 11/16/21 11:06

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/17/21 09:57	11/17/21 20:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			11/17/21 09:57	11/17/21 20:20	1
o-Terphenyl (Surr)	111		70 - 130			11/17/21 09:57	11/17/21 20:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	680		5.00	mg/Kg			11/24/21 11:33	1

Client Sample ID: C-1057

Lab Sample ID: 890-1577-20

Date Collected: 11/16/21 11:07

Matrix: Solid

Date Received: 11/16/21 14:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 06:43	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 06:43	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 06:43	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/18/21 09:38	11/20/21 06:43	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/18/21 09:38	11/20/21 06:43	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/18/21 09:38	11/20/21 06:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			11/18/21 09:38	11/20/21 06:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130			11/18/21 09:38	11/20/21 06:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/22/21 16:47	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *- *1	49.8	mg/Kg		11/17/21 09:57	11/17/21 20:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		11/17/21 09:57	11/17/21 20:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/17/21 09:57	11/17/21 20:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			11/17/21 09:57	11/17/21 20:41	1
o-Terphenyl (Surr)	101		70 - 130			11/17/21 09:57	11/17/21 20:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1980		24.9	mg/Kg			11/24/21 13:38	5

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1577-1	C-1277	125	104
890-1577-1 MS	C-1277	110	111
890-1577-1 MSD	C-1277	111	103
890-1577-2	C-1278	108	78
890-1577-3	C-1279	120	66 S1-
890-1577-4	C-1280	128	103
890-1577-5	C-1281	104	104
890-1577-6	C-1282	120	110
890-1577-7	C-1283	112	102
890-1577-8	C-1284	120	96
890-1577-9	C-1285	117	74
890-1577-10	C-1286	97	96
890-1577-11	C-1287	114	101
890-1577-12	C-1288	99	109
890-1577-13	C-1048	110	84
890-1577-14	C-1050	117	80
890-1577-15	C-1052	121	101
890-1577-16	C-1053	101	107
890-1577-17	C-1054	138 S1+	104
890-1577-18	C-1055	123	72
890-1577-19	C-1056	127	78
890-1577-20	C-1057	123	103
LCS 880-12501/1-A	Lab Control Sample	105	105
LCSD 880-12501/2-A	Lab Control Sample Dup	106	105
MB 880-12501/5-A	Method Blank	118	104
MB 880-12680/5-A	Method Blank	99	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-8383-A-9-C MS	Matrix Spike	96	91
880-8383-A-9-D MSD	Matrix Spike Duplicate	108	91
890-1577-1	C-1277	97	101
890-1577-1 MS	C-1277	101	96
890-1577-1 MSD	C-1277	102	97
890-1577-2	C-1278	102	107
890-1577-3	C-1279	97	102
890-1577-4	C-1280	99	100
890-1577-5	C-1281	97	99
890-1577-6	C-1282	112	116
890-1577-7	C-1283	102	107
890-1577-8	C-1284	96	100
890-1577-9	C-1285	107	120

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1577-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1577-10	C-1286	97	101
890-1577-11	C-1287	97	102
890-1577-12	C-1288	108	125
890-1577-13	C-1048	94	104
890-1577-14	C-1050	87	96
890-1577-15	C-1052	91	105
890-1577-16	C-1053	104	122
890-1577-17	C-1054	93	106
890-1577-18	C-1055	90	105
890-1577-19	C-1056	97	111
890-1577-20	C-1057	88	101
LCS 880-12504/2-A	Lab Control Sample	111	114
LCS 880-12588/2-A	Lab Control Sample	107	113
LCSD 880-12504/3-A	Lab Control Sample Dup	102	85
LCSD 880-12588/3-A	Lab Control Sample Dup	100	107
MB 880-12504/1-A	Method Blank	94	109
MB 880-12588/1-A	Method Blank	121	149 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12501/5-A

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12501

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/19/21 22:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/19/21 22:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/19/21 22:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/18/21 09:38	11/19/21 22:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/18/21 09:38	11/19/21 22:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/18/21 09:38	11/19/21 22:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	11/18/21 09:38	11/19/21 22:50	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/18/21 09:38	11/19/21 22:50	1

Lab Sample ID: LCS 880-12501/1-A

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1051		mg/Kg		105	70 - 130
Toluene	0.100	0.09300		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09173		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1861		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09179		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-12501/2-A

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12501

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1140		mg/Kg		114	70 - 130	8	35
Toluene	0.100	0.09467		mg/Kg		95	70 - 130	2	35
Ethylbenzene	0.100	0.09660		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1980		mg/Kg		99	70 - 130	6	35
o-Xylene	0.100	0.1000		mg/Kg		100	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-1577-1 MS

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: C-1277

Prep Type: Total/NA

Prep Batch: 12501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U	0.100	0.09851		mg/Kg		98	70 - 130
Toluene	<0.00198	U	0.100	0.08662		mg/Kg		86	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1577-1 MS

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: C-1277

Prep Type: Total/NA

Prep Batch: 12501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U	0.100	0.08297		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00397	U	0.201	0.1737		mg/Kg		87	70 - 130
o-Xylene	<0.00198	U	0.100	0.08433		mg/Kg		84	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 890-1577-1 MSD

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: C-1277

Prep Type: Total/NA

Prep Batch: 12501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00198	U	0.0994	0.08139		mg/Kg		82	70 - 130	19	35
Toluene	<0.00198	U	0.0994	0.07399		mg/Kg		74	70 - 130	16	35
Ethylbenzene	<0.00198	U	0.0994	0.07095		mg/Kg		71	70 - 130	16	35
m-Xylene & p-Xylene	<0.00397	U	0.199	0.1483		mg/Kg		75	70 - 130	16	35
o-Xylene	<0.00198	U	0.0994	0.07275		mg/Kg		73	70 - 130	15	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-12680/5-A

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12680

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/19/21 09:00	11/19/21 11:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	11/19/21 09:00	11/19/21 11:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/19/21 09:00	11/19/21 11:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12504/1-A

Matrix: Solid

Analysis Batch: 12507

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12504

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/17/21 09:57	11/17/21 12:19	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-12504/1-A

Matrix: Solid

Analysis Batch: 12507

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12504

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/17/21 09:57	11/17/21 12:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/17/21 09:57	11/17/21 12:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			11/17/21 09:57	11/17/21 12:19	1
o-Terphenyl (Surr)	109		70 - 130			11/17/21 09:57	11/17/21 12:19	1

Lab Sample ID: LCS 880-12504/2-A

Matrix: Solid

Analysis Batch: 12507

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	647.5	*-	mg/Kg		65	70 - 130
Diesel Range Organics (Over C10-C28)	1000	726.5		mg/Kg		73	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	111		70 - 130				
o-Terphenyl (Surr)	114		70 - 130				

Lab Sample ID: LCSD 880-12504/3-A

Matrix: Solid

Analysis Batch: 12507

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12504

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	848.2	*1	mg/Kg		85	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	1000	926.6	*1	mg/Kg		93	70 - 130	24	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	102		70 - 130						
o-Terphenyl (Surr)	85		70 - 130						

Lab Sample ID: 880-8383-A-9-C MS

Matrix: Solid

Analysis Batch: 12507

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	997	995.3		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *1	997	793.7		mg/Kg		80	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	96		70 - 130						
o-Terphenyl (Surr)	91		70 - 130						

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-8383-A-9-D MSD

Matrix: Solid

Analysis Batch: 12507

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	998	965.6		mg/Kg		97	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U *1	998	810.6		mg/Kg		81	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	108		70 - 130								
o-Terphenyl (Surr)	91		70 - 130								

Lab Sample ID: MB 880-12588/1-A

Matrix: Solid

Analysis Batch: 12505

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12588

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/17/21 21:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/17/21 21:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/17/21 15:37	11/17/21 21:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130			11/17/21 15:37	11/17/21 21:42	1
o-Terphenyl (Surr)	149	S1+	70 - 130			11/17/21 15:37	11/17/21 21:42	1

Lab Sample ID: LCS 880-12588/2-A

Matrix: Solid

Analysis Batch: 12505

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	995.3		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	909.9		mg/Kg		91	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	107		70 - 130						
o-Terphenyl (Surr)	113		70 - 130						

Lab Sample ID: LCSD 880-12588/3-A

Matrix: Solid

Analysis Batch: 12505

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12588

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	997.2		mg/Kg		100	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	962.5		mg/Kg		96	70 - 130	6	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-12588/3-A

Matrix: Solid

Analysis Batch: 12505

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12588

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	107		70 - 130

Lab Sample ID: 890-1577-1 MS

Matrix: Solid

Analysis Batch: 12505

Client Sample ID: C-1277

Prep Type: Total/NA

Prep Batch: 12588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1224		mg/Kg		123	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	884.2		mg/Kg		89	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	101		70 - 130						
o-Terphenyl (Surr)	96		70 - 130						

Lab Sample ID: 890-1577-1 MSD

Matrix: Solid

Analysis Batch: 12505

Client Sample ID: C-1277

Prep Type: Total/NA

Prep Batch: 12588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1216		mg/Kg		122	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	891.4		mg/Kg		89	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	102		70 - 130								
o-Terphenyl (Surr)	97		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12595/1-A

Matrix: Solid

Analysis Batch: 12681

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/19/21 18:38	1

Lab Sample ID: LCS 880-12595/2-A

Matrix: Solid

Analysis Batch: 12681

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	239.8		mg/Kg		96	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-12595/3-A

Matrix: Solid

Analysis Batch: 12681

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	235.9		mg/Kg		94	90 - 110	2	20

Lab Sample ID: 890-1577-2 MS

Matrix: Solid

Analysis Batch: 12681

Client Sample ID: C-1278

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	290	F1	250	503.1	F1	mg/Kg		86	90 - 110		

Lab Sample ID: 890-1577-2 MSD

Matrix: Solid

Analysis Batch: 12681

Client Sample ID: C-1278

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	290	F1	250	497.4	F1	mg/Kg		83	90 - 110	1	20

Lab Sample ID: MB 880-12598/1-A

Matrix: Solid

Analysis Batch: 13183

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/24/21 02:53	1

Lab Sample ID: LCS 880-12598/2-A

Matrix: Solid

Analysis Batch: 13183

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	241.4		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-12598/3-A

Matrix: Solid

Analysis Batch: 13183

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	225.1		mg/Kg		90	90 - 110	7	20

Lab Sample ID: 890-1577-11 MS

Matrix: Solid

Analysis Batch: 13183

Client Sample ID: C-1287

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	270		250	509.4		mg/Kg		96	90 - 110		

Lab Sample ID: 890-1577-11 MSD

Matrix: Solid

Analysis Batch: 13183

Client Sample ID: C-1287

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	270		250	524.1		mg/Kg		102	90 - 110	3	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

GC VOA

Prep Batch: 12501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-1	C-1277	Total/NA	Solid	5035	
890-1577-2	C-1278	Total/NA	Solid	5035	
890-1577-3	C-1279	Total/NA	Solid	5035	
890-1577-4	C-1280	Total/NA	Solid	5035	
890-1577-5	C-1281	Total/NA	Solid	5035	
890-1577-6	C-1282	Total/NA	Solid	5035	
890-1577-7	C-1283	Total/NA	Solid	5035	
890-1577-8	C-1284	Total/NA	Solid	5035	
890-1577-9	C-1285	Total/NA	Solid	5035	
890-1577-10	C-1286	Total/NA	Solid	5035	
890-1577-11	C-1287	Total/NA	Solid	5035	
890-1577-12	C-1288	Total/NA	Solid	5035	
890-1577-13	C-1048	Total/NA	Solid	5035	
890-1577-14	C-1050	Total/NA	Solid	5035	
890-1577-15	C-1052	Total/NA	Solid	5035	
890-1577-16	C-1053	Total/NA	Solid	5035	
890-1577-17	C-1054	Total/NA	Solid	5035	
890-1577-18	C-1055	Total/NA	Solid	5035	
890-1577-19	C-1056	Total/NA	Solid	5035	
890-1577-20	C-1057	Total/NA	Solid	5035	
MB 880-12501/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12501/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12501/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1577-1 MS	C-1277	Total/NA	Solid	5035	
890-1577-1 MSD	C-1277	Total/NA	Solid	5035	

Prep Batch: 12680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12680/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 12714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-1	C-1277	Total/NA	Solid	8021B	12501
890-1577-2	C-1278	Total/NA	Solid	8021B	12501
890-1577-3	C-1279	Total/NA	Solid	8021B	12501
890-1577-4	C-1280	Total/NA	Solid	8021B	12501
890-1577-5	C-1281	Total/NA	Solid	8021B	12501
890-1577-6	C-1282	Total/NA	Solid	8021B	12501
890-1577-7	C-1283	Total/NA	Solid	8021B	12501
890-1577-8	C-1284	Total/NA	Solid	8021B	12501
890-1577-9	C-1285	Total/NA	Solid	8021B	12501
890-1577-10	C-1286	Total/NA	Solid	8021B	12501
890-1577-11	C-1287	Total/NA	Solid	8021B	12501
890-1577-12	C-1288	Total/NA	Solid	8021B	12501
890-1577-13	C-1048	Total/NA	Solid	8021B	12501
890-1577-14	C-1050	Total/NA	Solid	8021B	12501
890-1577-15	C-1052	Total/NA	Solid	8021B	12501
890-1577-16	C-1053	Total/NA	Solid	8021B	12501
890-1577-17	C-1054	Total/NA	Solid	8021B	12501
890-1577-18	C-1055	Total/NA	Solid	8021B	12501
890-1577-19	C-1056	Total/NA	Solid	8021B	12501

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 12714 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-20	C-1057	Total/NA	Solid	8021B	12501
MB 880-12501/5-A	Method Blank	Total/NA	Solid	8021B	12501
MB 880-12680/5-A	Method Blank	Total/NA	Solid	8021B	12680
LCS 880-12501/1-A	Lab Control Sample	Total/NA	Solid	8021B	12501
LCSD 880-12501/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12501
890-1577-1 MS	C-1277	Total/NA	Solid	8021B	12501
890-1577-1 MSD	C-1277	Total/NA	Solid	8021B	12501

Analysis Batch: 12945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-1	C-1277	Total/NA	Solid	Total BTEX	
890-1577-2	C-1278	Total/NA	Solid	Total BTEX	
890-1577-3	C-1279	Total/NA	Solid	Total BTEX	
890-1577-4	C-1280	Total/NA	Solid	Total BTEX	
890-1577-5	C-1281	Total/NA	Solid	Total BTEX	
890-1577-6	C-1282	Total/NA	Solid	Total BTEX	
890-1577-7	C-1283	Total/NA	Solid	Total BTEX	
890-1577-8	C-1284	Total/NA	Solid	Total BTEX	
890-1577-9	C-1285	Total/NA	Solid	Total BTEX	
890-1577-10	C-1286	Total/NA	Solid	Total BTEX	
890-1577-11	C-1287	Total/NA	Solid	Total BTEX	
890-1577-12	C-1288	Total/NA	Solid	Total BTEX	
890-1577-13	C-1048	Total/NA	Solid	Total BTEX	
890-1577-14	C-1050	Total/NA	Solid	Total BTEX	
890-1577-15	C-1052	Total/NA	Solid	Total BTEX	
890-1577-16	C-1053	Total/NA	Solid	Total BTEX	
890-1577-17	C-1054	Total/NA	Solid	Total BTEX	
890-1577-18	C-1055	Total/NA	Solid	Total BTEX	
890-1577-19	C-1056	Total/NA	Solid	Total BTEX	
890-1577-20	C-1057	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 12504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-12	C-1288	Total/NA	Solid	8015NM Prep	
890-1577-13	C-1048	Total/NA	Solid	8015NM Prep	
890-1577-14	C-1050	Total/NA	Solid	8015NM Prep	
890-1577-15	C-1052	Total/NA	Solid	8015NM Prep	
890-1577-16	C-1053	Total/NA	Solid	8015NM Prep	
890-1577-17	C-1054	Total/NA	Solid	8015NM Prep	
890-1577-18	C-1055	Total/NA	Solid	8015NM Prep	
890-1577-19	C-1056	Total/NA	Solid	8015NM Prep	
890-1577-20	C-1057	Total/NA	Solid	8015NM Prep	
MB 880-12504/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12504/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12504/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-8383-A-9-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-8383-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 12505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-1	C-1277	Total/NA	Solid	8015B NM	12588
890-1577-2	C-1278	Total/NA	Solid	8015B NM	12588
890-1577-3	C-1279	Total/NA	Solid	8015B NM	12588
890-1577-4	C-1280	Total/NA	Solid	8015B NM	12588
890-1577-5	C-1281	Total/NA	Solid	8015B NM	12588
890-1577-6	C-1282	Total/NA	Solid	8015B NM	12588
890-1577-7	C-1283	Total/NA	Solid	8015B NM	12588
890-1577-8	C-1284	Total/NA	Solid	8015B NM	12588
890-1577-9	C-1285	Total/NA	Solid	8015B NM	12588
890-1577-10	C-1286	Total/NA	Solid	8015B NM	12588
890-1577-11	C-1287	Total/NA	Solid	8015B NM	12588
MB 880-12588/1-A	Method Blank	Total/NA	Solid	8015B NM	12588
LCS 880-12588/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12588
LCSD 880-12588/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12588
890-1577-1 MS	C-1277	Total/NA	Solid	8015B NM	12588
890-1577-1 MSD	C-1277	Total/NA	Solid	8015B NM	12588

Analysis Batch: 12507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-12	C-1288	Total/NA	Solid	8015B NM	12504
890-1577-13	C-1048	Total/NA	Solid	8015B NM	12504
890-1577-14	C-1050	Total/NA	Solid	8015B NM	12504
890-1577-15	C-1052	Total/NA	Solid	8015B NM	12504
890-1577-16	C-1053	Total/NA	Solid	8015B NM	12504
890-1577-17	C-1054	Total/NA	Solid	8015B NM	12504
890-1577-18	C-1055	Total/NA	Solid	8015B NM	12504
890-1577-19	C-1056	Total/NA	Solid	8015B NM	12504
890-1577-20	C-1057	Total/NA	Solid	8015B NM	12504
MB 880-12504/1-A	Method Blank	Total/NA	Solid	8015B NM	12504
LCS 880-12504/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12504
LCSD 880-12504/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12504
880-8383-A-9-C MS	Matrix Spike	Total/NA	Solid	8015B NM	12504
880-8383-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	12504

Prep Batch: 12588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-1	C-1277	Total/NA	Solid	8015NM Prep	
890-1577-2	C-1278	Total/NA	Solid	8015NM Prep	
890-1577-3	C-1279	Total/NA	Solid	8015NM Prep	
890-1577-4	C-1280	Total/NA	Solid	8015NM Prep	
890-1577-5	C-1281	Total/NA	Solid	8015NM Prep	
890-1577-6	C-1282	Total/NA	Solid	8015NM Prep	
890-1577-7	C-1283	Total/NA	Solid	8015NM Prep	
890-1577-8	C-1284	Total/NA	Solid	8015NM Prep	
890-1577-9	C-1285	Total/NA	Solid	8015NM Prep	
890-1577-10	C-1286	Total/NA	Solid	8015NM Prep	
890-1577-11	C-1287	Total/NA	Solid	8015NM Prep	
MB 880-12588/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12588/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12588/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1577-1 MS	C-1277	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 12588 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-1 MSD	C-1277	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-1	C-1277	Total/NA	Solid	8015 NM	
890-1577-2	C-1278	Total/NA	Solid	8015 NM	
890-1577-3	C-1279	Total/NA	Solid	8015 NM	
890-1577-4	C-1280	Total/NA	Solid	8015 NM	
890-1577-5	C-1281	Total/NA	Solid	8015 NM	
890-1577-6	C-1282	Total/NA	Solid	8015 NM	
890-1577-7	C-1283	Total/NA	Solid	8015 NM	
890-1577-8	C-1284	Total/NA	Solid	8015 NM	
890-1577-9	C-1285	Total/NA	Solid	8015 NM	
890-1577-10	C-1286	Total/NA	Solid	8015 NM	
890-1577-11	C-1287	Total/NA	Solid	8015 NM	
890-1577-12	C-1288	Total/NA	Solid	8015 NM	
890-1577-13	C-1048	Total/NA	Solid	8015 NM	
890-1577-14	C-1050	Total/NA	Solid	8015 NM	
890-1577-15	C-1052	Total/NA	Solid	8015 NM	
890-1577-16	C-1053	Total/NA	Solid	8015 NM	
890-1577-17	C-1054	Total/NA	Solid	8015 NM	
890-1577-18	C-1055	Total/NA	Solid	8015 NM	
890-1577-19	C-1056	Total/NA	Solid	8015 NM	
890-1577-20	C-1057	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 12595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-1	C-1277	Soluble	Solid	DI Leach	
890-1577-2	C-1278	Soluble	Solid	DI Leach	
890-1577-3	C-1279	Soluble	Solid	DI Leach	
890-1577-4	C-1280	Soluble	Solid	DI Leach	
MB 880-12595/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12595/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12595/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1577-2 MS	C-1278	Soluble	Solid	DI Leach	
890-1577-2 MSD	C-1278	Soluble	Solid	DI Leach	

Leach Batch: 12598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-5	C-1281	Soluble	Solid	DI Leach	
890-1577-6	C-1282	Soluble	Solid	DI Leach	
890-1577-7	C-1283	Soluble	Solid	DI Leach	
890-1577-8	C-1284	Soluble	Solid	DI Leach	
890-1577-9	C-1285	Soluble	Solid	DI Leach	
890-1577-10	C-1286	Soluble	Solid	DI Leach	
890-1577-11	C-1287	Soluble	Solid	DI Leach	
890-1577-12	C-1288	Soluble	Solid	DI Leach	
890-1577-13	C-1048	Soluble	Solid	DI Leach	
890-1577-14	C-1050	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 12598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-15	C-1052	Soluble	Solid	DI Leach	
890-1577-16	C-1053	Soluble	Solid	DI Leach	
890-1577-17	C-1054	Soluble	Solid	DI Leach	
890-1577-18	C-1055	Soluble	Solid	DI Leach	
890-1577-19	C-1056	Soluble	Solid	DI Leach	
890-1577-20	C-1057	Soluble	Solid	DI Leach	
MB 880-12598/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12598/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12598/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1577-11 MS	C-1287	Soluble	Solid	DI Leach	
890-1577-11 MSD	C-1287	Soluble	Solid	DI Leach	

Analysis Batch: 12681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-1	C-1277	Soluble	Solid	300.0	12595
890-1577-2	C-1278	Soluble	Solid	300.0	12595
890-1577-3	C-1279	Soluble	Solid	300.0	12595
890-1577-4	C-1280	Soluble	Solid	300.0	12595
MB 880-12595/1-A	Method Blank	Soluble	Solid	300.0	12595
LCS 880-12595/2-A	Lab Control Sample	Soluble	Solid	300.0	12595
LCSD 880-12595/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12595
890-1577-2 MS	C-1278	Soluble	Solid	300.0	12595
890-1577-2 MSD	C-1278	Soluble	Solid	300.0	12595

Analysis Batch: 13183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1577-5	C-1281	Soluble	Solid	300.0	12598
890-1577-6	C-1282	Soluble	Solid	300.0	12598
890-1577-7	C-1283	Soluble	Solid	300.0	12598
890-1577-8	C-1284	Soluble	Solid	300.0	12598
890-1577-9	C-1285	Soluble	Solid	300.0	12598
890-1577-10	C-1286	Soluble	Solid	300.0	12598
890-1577-11	C-1287	Soluble	Solid	300.0	12598
890-1577-12	C-1288	Soluble	Solid	300.0	12598
890-1577-13	C-1048	Soluble	Solid	300.0	12598
890-1577-14	C-1050	Soluble	Solid	300.0	12598
890-1577-15	C-1052	Soluble	Solid	300.0	12598
890-1577-16	C-1053	Soluble	Solid	300.0	12598
890-1577-17	C-1054	Soluble	Solid	300.0	12598
890-1577-18	C-1055	Soluble	Solid	300.0	12598
890-1577-19	C-1056	Soluble	Solid	300.0	12598
890-1577-20	C-1057	Soluble	Solid	300.0	12598
MB 880-12598/1-A	Method Blank	Soluble	Solid	300.0	12598
LCS 880-12598/2-A	Lab Control Sample	Soluble	Solid	300.0	12598
LCSD 880-12598/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12598
890-1577-11 MS	C-1287	Soluble	Solid	300.0	12598
890-1577-11 MSD	C-1287	Soluble	Solid	300.0	12598

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1277

Lab Sample ID: 890-1577-1

Date Collected: 11/16/21 09:00

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 23:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12588	11/17/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 22:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12595	11/17/21 16:27	CA	XEN MID
Soluble	Analysis	300.0		1			12681	11/19/21 21:08	CH	XEN MID

Client Sample ID: C-1278

Lab Sample ID: 890-1577-2

Date Collected: 11/16/21 09:01

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 23:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12588	11/17/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 23:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12595	11/17/21 16:27	CA	XEN MID
Soluble	Analysis	300.0		1			12681	11/19/21 21:17	CH	XEN MID

Client Sample ID: C-1279

Lab Sample ID: 890-1577-3

Date Collected: 11/16/21 09:02

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 23:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12588	11/17/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/18/21 00:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	12595	11/17/21 16:27	CA	XEN MID
Soluble	Analysis	300.0		1			12681	11/19/21 21:45	CH	XEN MID

Client Sample ID: C-1280

Lab Sample ID: 890-1577-4

Date Collected: 11/16/21 09:03

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 00:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1280

Date Collected: 11/16/21 09:03

Date Received: 11/16/21 14:57

Lab Sample ID: 890-1577-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12588	11/17/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/18/21 00:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12595	11/17/21 16:27	CA	XEN MID
Soluble	Analysis	300.0		1			12681	11/19/21 21:54	CH	XEN MID

Client Sample ID: C-1281

Date Collected: 11/16/21 09:04

Date Received: 11/16/21 14:57

Lab Sample ID: 890-1577-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 00:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12588	11/17/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/18/21 00:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 03:57	SC	XEN MID

Client Sample ID: C-1282

Date Collected: 11/16/21 09:05

Date Received: 11/16/21 14:57

Lab Sample ID: 890-1577-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 00:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12588	11/17/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/18/21 01:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 04:19	SC	XEN MID

Client Sample ID: C-1283

Date Collected: 11/16/21 09:06

Date Received: 11/16/21 14:57

Lab Sample ID: 890-1577-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 01:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12588	11/17/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/18/21 01:24	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1283

Date Collected: 11/16/21 09:06

Date Received: 11/16/21 14:57

Lab Sample ID: 890-1577-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 11:19	SC	XEN MID

Client Sample ID: C-1284

Date Collected: 11/16/21 09:07

Date Received: 11/16/21 14:57

Lab Sample ID: 890-1577-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 01:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12588	11/17/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/18/21 01:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 04:33	SC	XEN MID

Client Sample ID: C-1285

Date Collected: 11/16/21 09:08

Date Received: 11/16/21 14:57

Lab Sample ID: 890-1577-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 01:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12588	11/17/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/18/21 02:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 04:40	SC	XEN MID

Client Sample ID: C-1286

Date Collected: 11/16/21 09:09

Date Received: 11/16/21 14:57

Lab Sample ID: 890-1577-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 02:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12588	11/17/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/18/21 02:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 04:47	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1287

Lab Sample ID: 890-1577-11

Date Collected: 11/16/21 09:10

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 03:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12588	11/17/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/18/21 03:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 04:55	SC	XEN MID

Client Sample ID: C-1288

Lab Sample ID: 890-1577-12

Date Collected: 11/16/21 09:11

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 04:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12504	11/17/21 09:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12507	11/17/21 17:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 05:16	SC	XEN MID

Client Sample ID: C-1048

Lab Sample ID: 890-1577-13

Date Collected: 11/16/21 11:00

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 04:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12504	11/17/21 09:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12507	11/17/21 18:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 05:23	SC	XEN MID

Client Sample ID: C-1050

Lab Sample ID: 890-1577-14

Date Collected: 11/16/21 11:01

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 04:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1050

Lab Sample ID: 890-1577-14

Date Collected: 11/16/21 11:01

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12504	11/17/21 09:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12507	11/17/21 18:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 05:45	SC	XEN MID

Client Sample ID: C-1052

Lab Sample ID: 890-1577-15

Date Collected: 11/16/21 11:02

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 05:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12504	11/17/21 09:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12507	11/17/21 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 05:52	SC	XEN MID

Client Sample ID: C-1053

Lab Sample ID: 890-1577-16

Date Collected: 11/16/21 11:03

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 05:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12504	11/17/21 09:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12507	11/17/21 19:18	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 11:26	SC	XEN MID

Client Sample ID: C-1054

Lab Sample ID: 890-1577-17

Date Collected: 11/16/21 11:04

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 05:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12504	11/17/21 09:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12507	11/17/21 19:39	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Client Sample ID: C-1054

Lab Sample ID: 890-1577-17

Date Collected: 11/16/21 11:04

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 06:06	SC	XEN MID

Client Sample ID: C-1055

Lab Sample ID: 890-1577-18

Date Collected: 11/16/21 11:05

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 06:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12504	11/17/21 09:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12507	11/17/21 19:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 06:14	SC	XEN MID

Client Sample ID: C-1056

Lab Sample ID: 890-1577-19

Date Collected: 11/16/21 11:06

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 06:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12504	11/17/21 09:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12507	11/17/21 20:20	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		1			13183	11/24/21 11:33	SC	XEN MID

Client Sample ID: C-1057

Lab Sample ID: 890-1577-20

Date Collected: 11/16/21 11:07

Matrix: Solid

Date Received: 11/16/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	12501	11/18/21 09:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/20/21 06:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12504	11/17/21 09:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12507	11/17/21 20:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12598	11/17/21 16:40	CA	XEN MID
Soluble	Analysis	300.0		5			13183	11/24/21 13:38	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1577-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1577-1	C-1277	Solid	11/16/21 09:00	11/16/21 14:57
890-1577-2	C-1278	Solid	11/16/21 09:01	11/16/21 14:57
890-1577-3	C-1279	Solid	11/16/21 09:02	11/16/21 14:57
890-1577-4	C-1280	Solid	11/16/21 09:03	11/16/21 14:57
890-1577-5	C-1281	Solid	11/16/21 09:04	11/16/21 14:57
890-1577-6	C-1282	Solid	11/16/21 09:05	11/16/21 14:57
890-1577-7	C-1283	Solid	11/16/21 09:06	11/16/21 14:57
890-1577-8	C-1284	Solid	11/16/21 09:07	11/16/21 14:57
890-1577-9	C-1285	Solid	11/16/21 09:08	11/16/21 14:57
890-1577-10	C-1286	Solid	11/16/21 09:09	11/16/21 14:57
890-1577-11	C-1287	Solid	11/16/21 09:10	11/16/21 14:57
890-1577-12	C-1288	Solid	11/16/21 09:11	11/16/21 14:57
890-1577-13	C-1048	Solid	11/16/21 11:00	11/16/21 14:57
890-1577-14	C-1050	Solid	11/16/21 11:01	11/16/21 14:57
890-1577-15	C-1052	Solid	11/16/21 11:02	11/16/21 14:57
890-1577-16	C-1053	Solid	11/16/21 11:03	11/16/21 14:57
890-1577-17	C-1054	Solid	11/16/21 11:04	11/16/21 14:57
890-1577-18	C-1055	Solid	11/16/21 11:05	11/16/21 14:57
890-1577-19	C-1056	Solid	11/16/21 11:06	11/16/21 14:57
890-1577-20	C-1057	Solid	11/16/21 11:07	11/16/21 14:57

Varson & Associates, Inc.
Environmental Consultants

890-1577 Chain of Custody



Data Reported to:

DATE: 11-16-21
PO#:
PROJECT LOCATION OR NAME: Alameda Ave
LAB PROJECT #: 21-0105-02 COLLECTOR: TP
LAB WORK ORDER#: PAGE 1 OF 2

CHAIN-OF-CUSTODY

No. 2178

TIME ZONE Time Zone/State	TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
						HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE			
C-1277				0900	5					X		
C-1278				0901						X		
C-1279				0902						X		
C-1280				0903						X		
C-1281				0904						X		
C-1282				0905						X		
C-1283				0906						X		
C-1284				0907						X		
C-1285				0908						X		
C-1286				0909						X		
C-1287				0910						X		
C-1288				0911						X		
C-1048				1100						X		
C-1050				1101						X		
C-1052				1102						X		
TOTAL	15											

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME	TURN AROUND TIME	LABORATORY USE ONLY
<u>[Signature]</u>	11-16-21	<u>[Signature]</u>	11-16-21	NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐	RECEIVING TEMP: <u>29.4</u> CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☐ NOT USED CARRIER BILL # <u> </u> ☐ HAND DELIVERED

LABORATORY: Xenco

1
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14

No. 2179

CHAIN-OF-CUSTODY

Arson & Associates, Inc.
Environmental Consultants

507 N. Marlenfeld, Ste. 202
Midland, TX 79701
432.687.0901

Data Reported to:

DATE: 11-16-21
PO#: _____
PROJECT LOCATION OR NAME: PALMIS AST
LAI PROJECT #: 21-0105-02
COLLECTOR: TP
LAB WORK ORDER#: _____
PAGE 2 OF 2

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State

MST/AM

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ NaOH

ICE

UNPRESERVED

ANALYSES

BTEX-MTBE
TPH 418.1
GASOLINE MOD 8015
DIESEL - MOD 8015
OIL - MOD 8015
VOC 8260
SVOC 8270
8081 PAH 8270
8082 PESTICIDES
TCAP - METALS (RCRA)
TCAP - PEST
TOTAL METALS (RCRA)
LEAD - TOTAL
RCI
TDS
pH
EXPLOSIVES
CHLORIDES
ANIONS
ALKALINITY
HOLDPAH
8151 HERBICIDES
TCAP VOC
Sem-VOC
OTHER LIST
D W 2008
FLASHPOINT
% MOISTURE
CYANIDE
PECHLORATE
ALKALINITY

FIELD NOTES

C-1053
C-1054
C-1055
C-1056
C-1057

11-16-21

1103

S

1

11-16-21

1104

S

1

11-16-21

1105

S

1

11-16-21

1106

S

1

11-16-21

1107

S

1

11-16-21

1108

S

1

11-16-21

1109

S

1

11-16-21

1110

S

1

11-16-21

1111

S

1

11-16-21

1112

S

1

Eurofins Xenco, Carlsbad

1089 N Canal St

Carlsbad NM 88220

Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



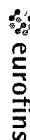
Environment Testing America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No: 890-510 1
Client Contact:	Phone	Taylor Holly			Page: Page 1 of 3
Shipping/Receiving	E-Mail	holly.taylor@eurofinset.com	Accreditations Required (See note)	State of Origin New Mexico	
Company	Address	1211 W Florida Ave, City: State, Zip: TX 79701	NE LAP - Louisiana NE LAP - Texas	Job #: 890-1577-1	
Due Date Requested	11/22/2021	Analysis Requested			
TAI Requested (days):					
Phone:	432-704-5440(Tel)	PO #:			
Email:		WO #:			
Project Name	Palmino Ast	Project #	89000025		
Site	SSOW#				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=bitumen, A=air)
C-1277 (890-1577-1)		11/16/21	09 00	Mountain	Solid
C-1278 (890-1577-2)		11/16/21	09 01	Mountain	Solid
C-1279 (890-1577-3)		11/16/21	09 02	Mountain	Solid
C-1280 (890-1577-4)		11/16/21	09 03	Mountain	Solid
C-1281 (890-1577-5)		11/16/21	09 04	Mountain	Solid
C-1282 (890-1577-6)		11/16/21	09 05	Mountain	Solid
C-1283 (890-1577-7)		11/16/21	09 06	Mountain	Solid
C-1284 (890-1577-8)		11/16/21	09 07	Mountain	Solid
C-1285 (890-1577-9)		11/16/21	09 08	Mountain	Solid
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank. 2		Special Instructions/QC Requirements	
Empty Kit Relinquished by	Date	Time	Method of Shipment:		
Relinquished by	11/17/21		Received by	11/17/21	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Custody Seals Intact:	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.			
Δ Yes Δ No		3.0/3.1			

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1577-1

SDG Number: 21-0105-02

Login Number: 1577**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1577-1

SDG Number: 21-0105-02

Login Number: 1577**List Number: 2****Creator: Teel, Brianna****List Source: Eurofins Xenco, Midland****List Creation: 11/17/21 12:45 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1585-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
11/30/2021 2:57:13 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1585-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Job ID: 890-1585-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1585-1

Comments

No additional comments.

Receipt

The samples were received on 11/17/2021 2:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.4° C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-1175 (890-1585-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12716 and analytical batch 880-12735 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: C-1174 (890-1585-4). Evidence of matrix interferences is not obvious.

Method 8015B NM: The CCV was biased low for both the gasoline and diesel hydrocarbon ranges however it appears to be poor preparation of the CCV rather than a systemic problem therefore the data was qualified and reported.
(CCV 880-12735/30)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Client Sample ID: C-1139

Lab Sample ID: 890-1585-1

Date Collected: 11/17/21 10:05

Matrix: Solid

Date Received: 11/17/21 14:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 15:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 15:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 15:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/19/21 09:00	11/19/21 15:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 15:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/19/21 09:00	11/19/21 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	11/19/21 09:00	11/19/21 15:02	1
1,4-Difluorobenzene (Surr)	107		70 - 130	11/19/21 09:00	11/19/21 15:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/21 09:12	11/19/21 16:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/21 09:12	11/19/21 16:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 09:12	11/19/21 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	11/19/21 09:12	11/19/21 16:56	1
o-Terphenyl (Surr)	124		70 - 130	11/19/21 09:12	11/19/21 16:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	688		4.98	mg/Kg			11/29/21 15:00	1

Client Sample ID: C-1188

Lab Sample ID: 890-1585-2

Date Collected: 11/17/21 10:06

Matrix: Solid

Date Received: 11/17/21 14:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 15:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 15:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 15:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/19/21 09:00	11/19/21 15:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:00	11/19/21 15:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/19/21 09:00	11/19/21 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	11/19/21 09:00	11/19/21 15:23	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/19/21 09:00	11/19/21 15:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Client Sample ID: C-1188

Lab Sample ID: 890-1585-2

Date Collected: 11/17/21 10:06

Matrix: Solid

Date Received: 11/17/21 14:45

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/21 09:12	11/19/21 17:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/21 09:12	11/19/21 17:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 09:12	11/19/21 17:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			11/19/21 09:12	11/19/21 17:18	1
o-Terphenyl (Surr)	142	S1+	70 - 130			11/19/21 09:12	11/19/21 17:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406		4.95	mg/Kg			11/29/21 15:19	1

Client Sample ID: C-1175

Lab Sample ID: 890-1585-3

Date Collected: 11/17/21 11:44

Matrix: Solid

Date Received: 11/17/21 14:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/19/21 09:30	11/19/21 14:49	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/19/21 09:30	11/19/21 14:49	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/19/21 09:30	11/19/21 14:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/19/21 09:30	11/19/21 14:49	1
o-Xylene	0.00464		0.00201	mg/Kg		11/19/21 09:30	11/19/21 14:49	1
Xylenes, Total	0.00464		0.00402	mg/Kg		11/19/21 09:30	11/19/21 14:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			11/19/21 09:30	11/19/21 14:49	1
1,4-Difluorobenzene (Surr)	88		70 - 130			11/19/21 09:30	11/19/21 14:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00464		0.00402	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/21 09:12	11/19/21 17:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/21 09:12	11/19/21 17:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Client Sample ID: C-1175

Lab Sample ID: 890-1585-3

Date Collected: 11/17/21 11:44

Matrix: Solid

Date Received: 11/17/21 14:45

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/21 09:12	11/19/21 17:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130			11/19/21 09:12	11/19/21 17:39	1
o-Terphenyl (Surr)	147	S1+	70 - 130			11/19/21 09:12	11/19/21 17:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	758		4.97	mg/Kg			11/29/21 15:37	1

Client Sample ID: C-1174

Lab Sample ID: 890-1585-4

Date Collected: 11/17/21 11:45

Matrix: Solid

Date Received: 11/17/21 14:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:30	11/19/21 15:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:30	11/19/21 15:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:30	11/19/21 15:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/19/21 09:30	11/19/21 15:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/19/21 09:30	11/19/21 15:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/19/21 09:30	11/19/21 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			11/19/21 09:30	11/19/21 15:16	1
1,4-Difluorobenzene (Surr)	108		70 - 130			11/19/21 09:30	11/19/21 15:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/23/21 12:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/21 09:12	11/19/21 18:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/21 09:12	11/19/21 18:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 09:12	11/19/21 18:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			11/19/21 09:12	11/19/21 18:22	1
o-Terphenyl (Surr)	141	S1+	70 - 130			11/19/21 09:12	11/19/21 18:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	426		4.99	mg/Kg			11/29/21 16:33	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-8475-A-1-B MS	Matrix Spike	78	90
880-8475-A-1-C MSD	Matrix Spike Duplicate	79	72
890-1585-1	C-1139	132 S1+	107
890-1585-2	C-1188	113	102
890-1585-3	C-1175	135 S1+	88
890-1585-4	C-1174	117	108
890-1601-A-1-A MS	Matrix Spike	114	107
890-1601-A-1-B MSD	Matrix Spike Duplicate	117	104
LCS 880-12680/1-A	Lab Control Sample	113	108
LCS 880-12684/1-A	Lab Control Sample	93	98
LCSD 880-12680/2-A	Lab Control Sample Dup	107	105
LCSD 880-12684/2-A	Lab Control Sample Dup	95	109
MB 880-12680/5-A	Method Blank	99	102
MB 880-12684/5-A	Method Blank	68 S1-	96
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1585-1	C-1139	102	124
890-1585-2	C-1188	115	142 S1+
890-1585-3	C-1175	118	147 S1+
890-1585-4	C-1174	114	141 S1+
890-1593-A-1-G MS	Matrix Spike	104	110
890-1593-A-1-H MSD	Matrix Spike Duplicate	97	97
LCS 880-12716/2-A	Lab Control Sample	104	112
LCSD 880-12716/3-A	Lab Control Sample Dup	89	95
MB 880-12716/1-A	Method Blank	108	129
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12680/5-A

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12680

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:00	11/19/21 11:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/19/21 09:00	11/19/21 11:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	11/19/21 09:00	11/19/21 11:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/19/21 09:00	11/19/21 11:57	1

Lab Sample ID: LCS 880-12680/1-A

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1051		mg/Kg		105	70 - 130
Toluene	0.100	0.09765		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09849		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-12680/2-A

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12680

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1012		mg/Kg		101	70 - 130	4	35
Toluene	0.100	0.09172		mg/Kg		92	70 - 130	6	35
Ethylbenzene	0.100	0.09052		mg/Kg		91	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1898		mg/Kg		95	70 - 130	8	35
o-Xylene	0.100	0.09443		mg/Kg		94	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-1601-A-1-B MSD

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1064		mg/Kg					
Toluene	<0.00200	U	0.0990	0.09949		mg/Kg					

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1601-A-1-B MSD

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00200	U	0.0990	0.1001		mg/Kg					
m-Xylene & p-Xylene	<0.00399	U	0.198	0.2116		mg/Kg					
o-Xylene	<0.00200	U	0.0990	0.1045		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-12684/5-A

Matrix: Solid

Analysis Batch: 12718

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12684

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:30	11/19/21 13:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:30	11/19/21 13:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:30	11/19/21 13:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/19/21 09:30	11/19/21 13:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:30	11/19/21 13:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/19/21 09:30	11/19/21 13:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	11/19/21 09:30	11/19/21 13:01	1
1,4-Difluorobenzene (Surr)	96		70 - 130	11/19/21 09:30	11/19/21 13:01	1

Lab Sample ID: LCS 880-12684/1-A

Matrix: Solid

Analysis Batch: 12718

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08353		mg/Kg		84	70 - 130
Toluene	0.100	0.09588		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09504		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2101		mg/Kg		105	70 - 130
o-Xylene	0.100	0.09622		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-12684/2-A

Matrix: Solid

Analysis Batch: 12718

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12684

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09496		mg/Kg		95	70 - 130	13	35
Toluene	0.100	0.09267		mg/Kg		93	70 - 130	3	35
Ethylbenzene	0.100	0.09190		mg/Kg		92	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2034		mg/Kg		102	70 - 130	3	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-12684/2-A

Matrix: Solid

Analysis Batch: 12718

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12684

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	0.100	0.09414		mg/Kg		94	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-8475-A-1-B MS

Matrix: Solid

Analysis Batch: 12718

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12684

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0998	0.05266	F1	mg/Kg		53	70 - 130		
Toluene	<0.00198	U F2 F1	0.0998	0.06060	F1	mg/Kg		61	70 - 130		
Ethylbenzene	<0.00198	U F1	0.0998	0.06111	F1	mg/Kg		61	70 - 130		
m-Xylene & p-Xylene	<0.00397	U F2 F1	0.200	0.1205	F1	mg/Kg		60	70 - 130		
o-Xylene	<0.00198	U F2 F1	0.0998	0.06198	F1	mg/Kg		62	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-8475-A-1-C MSD

Matrix: Solid

Analysis Batch: 12718

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12684

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0992	0.04129	F1	mg/Kg		42	70 - 130	24	35
Toluene	<0.00198	U F2 F1	0.0992	0.04171	F2 F1	mg/Kg		42	70 - 130	37	35
Ethylbenzene	<0.00198	U F1	0.0992	0.05513	F1	mg/Kg		56	70 - 130	10	35
m-Xylene & p-Xylene	<0.00397	U F2 F1	0.198	0.05314	F2 F1	mg/Kg		27	70 - 130	78	35
o-Xylene	<0.00198	U F2 F1	0.0992	0.03093	F2 F1	mg/Kg		31	70 - 130	67	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		70 - 130
1,4-Difluorobenzene (Surr)	72		70 - 130

Lab Sample ID: 890-1601-A-1-A MS

Matrix: Solid

Analysis Batch: 12714

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12716/1-A

Matrix: Solid

Analysis Batch: 12735

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12716

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/21 09:12	11/19/21 12:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/21 09:12	11/19/21 12:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 09:12	11/19/21 12:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			11/19/21 09:12	11/19/21 12:33	1
o-Terphenyl (Surr)	129		70 - 130			11/19/21 09:12	11/19/21 12:33	1

Lab Sample ID: LCS 880-12716/2-A

Matrix: Solid

Analysis Batch: 12735

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	930.1		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	877.0		mg/Kg		88	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	104		70 - 130				
o-Terphenyl (Surr)	112		70 - 130				

Lab Sample ID: LCSD 880-12716/3-A

Matrix: Solid

Analysis Batch: 12735

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12716

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1092		mg/Kg		109	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	840.6		mg/Kg		84	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	89		70 - 130						
o-Terphenyl (Surr)	95		70 - 130						

Lab Sample ID: 890-1593-A-1-G MS

Matrix: Solid

Analysis Batch: 12735

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12716

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	1446	F1	mg/Kg		145	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	912.7		mg/Kg		91	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1593-A-1-G MS

Matrix: Solid

Analysis Batch: 12735

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12716

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	110		70 - 130

Lab Sample ID: 890-1593-A-1-H MSD

Matrix: Solid

Analysis Batch: 12735

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12716

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	1213		mg/Kg		122	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	846.2		mg/Kg		85	70 - 130	8	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	97		70 - 130								
o-Terphenyl (Surr)	97		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12802/1-A

Matrix: Solid

Analysis Batch: 13318

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			11/29/21 12:52	1		

Lab Sample ID: LCS 880-12802/2-A

Matrix: Solid

Analysis Batch: 13318

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	271.1		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-12802/3-A

Matrix: Solid

Analysis Batch: 13318

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	270.4		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-1589-A-4-F MS

Matrix: Solid

Analysis Batch: 13318

Client Sample ID: Matrix Spike

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	70.0		250	342.1		mg/Kg		109	90 - 110		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1589-A-4-G MSD					Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 13318												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	70.0		250	337.4		mg/Kg		107	90 - 110	1	20	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

GC VOA

Prep Batch: 12680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1585-1	C-1139	Total/NA	Solid	5035	
890-1585-2	C-1188	Total/NA	Solid	5035	
MB 880-12680/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12680/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12680/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1601-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 12684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1585-3	C-1175	Total/NA	Solid	5035	
890-1585-4	C-1174	Total/NA	Solid	5035	
MB 880-12684/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12684/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12684/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8475-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-8475-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 12714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1585-1	C-1139	Total/NA	Solid	8021B	12680
890-1585-2	C-1188	Total/NA	Solid	8021B	12680
MB 880-12680/5-A	Method Blank	Total/NA	Solid	8021B	12680
LCS 880-12680/1-A	Lab Control Sample	Total/NA	Solid	8021B	12680
LCSD 880-12680/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12680
890-1601-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1601-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	12680

Analysis Batch: 12718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1585-3	C-1175	Total/NA	Solid	8021B	12684
890-1585-4	C-1174	Total/NA	Solid	8021B	12684
MB 880-12684/5-A	Method Blank	Total/NA	Solid	8021B	12684
LCS 880-12684/1-A	Lab Control Sample	Total/NA	Solid	8021B	12684
LCSD 880-12684/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12684
880-8475-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	12684
880-8475-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	12684

Analysis Batch: 12945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1585-1	C-1139	Total/NA	Solid	Total BTEX	
890-1585-2	C-1188	Total/NA	Solid	Total BTEX	
890-1585-3	C-1175	Total/NA	Solid	Total BTEX	
890-1585-4	C-1174	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 12716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1585-1	C-1139	Total/NA	Solid	8015NM Prep	
890-1585-2	C-1188	Total/NA	Solid	8015NM Prep	
890-1585-3	C-1175	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 12716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1585-4	C-1174	Total/NA	Solid	8015NM Prep	
MB 880-12716/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12716/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12716/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1593-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1593-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1585-1	C-1139	Total/NA	Solid	8015B NM	12716
890-1585-2	C-1188	Total/NA	Solid	8015B NM	12716
890-1585-3	C-1175	Total/NA	Solid	8015B NM	12716
890-1585-4	C-1174	Total/NA	Solid	8015B NM	12716
MB 880-12716/1-A	Method Blank	Total/NA	Solid	8015B NM	12716
LCS 880-12716/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12716
LCSD 880-12716/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12716
890-1593-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	12716
890-1593-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	12716

Analysis Batch: 12781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1585-1	C-1139	Total/NA	Solid	8015 NM	
890-1585-2	C-1188	Total/NA	Solid	8015 NM	
890-1585-3	C-1175	Total/NA	Solid	8015 NM	
890-1585-4	C-1174	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 12802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1585-1	C-1139	Soluble	Solid	DI Leach	
890-1585-2	C-1188	Soluble	Solid	DI Leach	
890-1585-3	C-1175	Soluble	Solid	DI Leach	
890-1585-4	C-1174	Soluble	Solid	DI Leach	
MB 880-12802/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12802/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12802/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1589-A-4-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1589-A-4-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 13318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1585-1	C-1139	Soluble	Solid	300.0	12802
890-1585-2	C-1188	Soluble	Solid	300.0	12802
890-1585-3	C-1175	Soluble	Solid	300.0	12802
890-1585-4	C-1174	Soluble	Solid	300.0	12802
MB 880-12802/1-A	Method Blank	Soluble	Solid	300.0	12802
LCS 880-12802/2-A	Lab Control Sample	Soluble	Solid	300.0	12802
LCSD 880-12802/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12802
890-1589-A-4-F MS	Matrix Spike	Soluble	Solid	300.0	12802
890-1589-A-4-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	12802

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Client Sample ID: C-1139

Lab Sample ID: 890-1585-1

Date Collected: 11/17/21 10:05

Matrix: Solid

Date Received: 11/17/21 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12680	11/19/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 15:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12716	11/19/21 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12735	11/19/21 16:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12802	11/19/21 16:49	SC	XEN MID
Soluble	Analysis	300.0		1			13318	11/29/21 15:00	CH	XEN MID

Client Sample ID: C-1188

Lab Sample ID: 890-1585-2

Date Collected: 11/17/21 10:06

Matrix: Solid

Date Received: 11/17/21 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12680	11/19/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12714	11/19/21 15:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12716	11/19/21 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12735	11/19/21 17:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12802	11/19/21 16:49	SC	XEN MID
Soluble	Analysis	300.0		1			13318	11/29/21 15:19	CH	XEN MID

Client Sample ID: C-1175

Lab Sample ID: 890-1585-3

Date Collected: 11/17/21 11:44

Matrix: Solid

Date Received: 11/17/21 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	12684	11/19/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/19/21 14:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12716	11/19/21 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12735	11/19/21 17:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12802	11/19/21 16:49	SC	XEN MID
Soluble	Analysis	300.0		1			13318	11/29/21 15:37	CH	XEN MID

Client Sample ID: C-1174

Lab Sample ID: 890-1585-4

Date Collected: 11/17/21 11:45

Matrix: Solid

Date Received: 11/17/21 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12684	11/19/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/19/21 15:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/23/21 12:11	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Client Sample ID: C-1174
Date Collected: 11/17/21 11:45
Date Received: 11/17/21 14:45

Lab Sample ID: 890-1585-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12716	11/19/21 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12735	11/19/21 18:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12802	11/19/21 16:49	SC	XEN MID
Soluble	Analysis	300.0		1			13318	11/29/21 16:33	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1585-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1585-1	C-1139	Solid	11/17/21 10:05	11/17/21 14:45
890-1585-2	C-1188	Solid	11/17/21 10:06	11/17/21 14:45
890-1585-3	C-1175	Solid	11/17/21 11:44	11/17/21 14:45
890-1585-4	C-1174	Solid	11/17/21 11:45	11/17/21 14:45

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No. 2228

Data Reported to

CHAIN-OF-CUSTODY

890-1585 Chain of Custody



1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1585-1

SDG Number: 21-0105-02

Login Number: 1585

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1585-1

SDG Number: 21-0105-02

Login Number: 1585

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 11/19/21 11:47 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1603-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A rectangular box containing a handwritten signature in blue ink that reads "Brianna Teel".

Authorized for release by:
12/6/2021 1:42:34 PM
Brianna Teel, Project Manager
(432)704-5440
brianna.teel@eurofinset.com
Designee for
Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1603-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Job ID: 890-1603-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1603-1****Receipt**

The samples were received on 11/18/2021 4:13 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12786 and analytical batch 880-12909 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-12786 and analytical batch 880-12909 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-13010/2-A) and (LCSD 880-13010/3-A). Percent recoveries are based on the amount spiked. MS/MSD were acceptable.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-13010 and analytical batch 880-13046 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-1040 (890-1603-6) and C-1041 (890-1603-7). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1122

Lab Sample ID: 890-1603-1

Date Collected: 11/18/21 12:35

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 16:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 16:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 16:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/23/21 08:15	11/23/21 16:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 16:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/23/21 08:15	11/23/21 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/23/21 08:15	11/23/21 16:34	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/23/21 08:15	11/23/21 16:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/23/21 08:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 15:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 15:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	11/23/21 08:57	11/23/21 15:18	1
o-Terphenyl (Surr)	105		70 - 130	11/23/21 08:57	11/23/21 15:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	507		4.99	mg/Kg			12/03/21 21:29	1

Client Sample ID: C-1128

Lab Sample ID: 890-1603-2

Date Collected: 11/18/21 12:41

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/23/21 08:15	11/23/21 16:54	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/23/21 08:15	11/23/21 16:54	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/23/21 08:15	11/23/21 16:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/23/21 08:15	11/23/21 16:54	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/23/21 08:15	11/23/21 16:54	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/23/21 08:15	11/23/21 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	11/23/21 08:15	11/23/21 16:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1128

Lab Sample ID: 890-1603-2

Date Collected: 11/18/21 12:41

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	11/23/21 08:15	11/23/21 16:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/23/21 08:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/23/21 08:57	11/23/21 15:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/23/21 08:57	11/23/21 15:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/23/21 08:57	11/23/21 15:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	125		70 - 130			11/23/21 08:57	11/23/21 15:39	1
o-Terphenyl (Surr)	124		70 - 130			11/23/21 08:57	11/23/21 15:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	536		5.04	mg/Kg			12/03/21 22:03	1

Client Sample ID: C-1037

Lab Sample ID: 890-1603-3

Date Collected: 11/18/21 15:00

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 17:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 17:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 17:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/23/21 08:15	11/23/21 17:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 17:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/23/21 08:15	11/23/21 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	11/23/21 08:15	11/23/21 17:15	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/23/21 08:15	11/23/21 17:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/23/21 08:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1037

Lab Sample ID: 890-1603-3

Date Collected: 11/18/21 15:00

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 16:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 16:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 16:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			11/23/21 08:57	11/23/21 16:01	1
o-Terphenyl (Surr)	111		70 - 130			11/23/21 08:57	11/23/21 16:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	588		4.97	mg/Kg			12/03/21 22:14	1

Client Sample ID: C-1038

Lab Sample ID: 890-1603-4

Date Collected: 11/18/21 15:01

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 17:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 17:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 17:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/23/21 08:15	11/23/21 17:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 17:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/23/21 08:15	11/23/21 17:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			11/23/21 08:15	11/23/21 17:35	1
1,4-Difluorobenzene (Surr)	107		70 - 130			11/23/21 08:15	11/23/21 17:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/23/21 08:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 16:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 16:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 16:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130			11/23/21 08:57	11/23/21 16:22	1
o-Terphenyl (Surr)	109		70 - 130			11/23/21 08:57	11/23/21 16:22	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1038

Lab Sample ID: 890-1603-4

Date Collected: 11/18/21 15:01

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	749		4.95	mg/Kg			12/03/21 22:26	1

Client Sample ID: C-1039

Lab Sample ID: 890-1603-5

Date Collected: 11/18/21 15:02

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 17:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 17:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 17:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/23/21 08:15	11/23/21 17:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 17:56	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/23/21 08:15	11/23/21 17:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			11/23/21 08:15	11/23/21 17:56	1
1,4-Difluorobenzene (Surr)	98		70 - 130			11/23/21 08:15	11/23/21 17:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/23/21 08:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 16:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 16:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 16:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			11/23/21 08:57	11/23/21 16:44	1
o-Terphenyl (Surr)	113		70 - 130			11/23/21 08:57	11/23/21 16:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	449		5.00	mg/Kg			12/03/21 22:37	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1040

Lab Sample ID: 890-1603-6

Date Collected: 11/18/21 15:03

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/23/21 08:15	11/23/21 18:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/23/21 08:15	11/23/21 18:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/23/21 08:15	11/23/21 18:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/23/21 08:15	11/23/21 18:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/23/21 08:15	11/23/21 18:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/23/21 08:15	11/23/21 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	11/23/21 08:15	11/23/21 18:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/23/21 08:15	11/23/21 18:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/23/21 08:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 17:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 17:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	132	S1+	70 - 130	11/23/21 08:57	11/23/21 17:28	1
o-Terphenyl (Surr)	133	S1+	70 - 130	11/23/21 08:57	11/23/21 17:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	760		4.98	mg/Kg			12/03/21 23:11	1

Client Sample ID: C-1041

Lab Sample ID: 890-1603-7

Date Collected: 11/18/21 15:04

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 18:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 18:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 18:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/23/21 08:15	11/23/21 18:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 18:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/23/21 08:15	11/23/21 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	11/23/21 08:15	11/23/21 18:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1041

Lab Sample ID: 890-1603-7

Date Collected: 11/18/21 15:04

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	11/23/21 08:15	11/23/21 18:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/23/21 08:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 17:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 17:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 17:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	130		70 - 130			11/23/21 08:57	11/23/21 17:49	1
o-Terphenyl (Surr)	135	S1+	70 - 130			11/23/21 08:57	11/23/21 17:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	514		4.95	mg/Kg			12/03/21 23:23	1

Client Sample ID: C-1042

Lab Sample ID: 890-1603-8

Date Collected: 11/18/21 15:05

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 18:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 18:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 18:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/23/21 08:15	11/23/21 18:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 18:57	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/23/21 08:15	11/23/21 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/23/21 08:15	11/23/21 18:57	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/23/21 08:15	11/23/21 18:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/23/21 08:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1042

Lab Sample ID: 890-1603-8

Date Collected: 11/18/21 15:05

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 18:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 18:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 18:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			11/23/21 08:57	11/23/21 18:11	1
o-Terphenyl (Surr)	111		70 - 130			11/23/21 08:57	11/23/21 18:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	546		5.05	mg/Kg			12/03/21 23:34	1

Client Sample ID: C-1043

Lab Sample ID: 890-1603-9

Date Collected: 11/18/21 15:06

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/22/21 08:00	11/22/21 23:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/22/21 08:00	11/22/21 23:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/22/21 08:00	11/22/21 23:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/22/21 08:00	11/22/21 23:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/22/21 08:00	11/22/21 23:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/22/21 08:00	11/22/21 23:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			11/22/21 08:00	11/22/21 23:52	1
1,4-Difluorobenzene (Surr)	109		70 - 130			11/22/21 08:00	11/22/21 23:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/23/21 08:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 18:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 18:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 18:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	126		70 - 130			11/23/21 08:57	11/23/21 18:32	1
o-Terphenyl (Surr)	132	S1+	70 - 130			11/23/21 08:57	11/23/21 18:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1043

Lab Sample ID: 890-1603-9

Date Collected: 11/18/21 15:06

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	691		4.98	mg/Kg			12/03/21 23:46	1

Client Sample ID: C-1044

Lab Sample ID: 890-1603-10

Date Collected: 11/18/21 15:07

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/22/21 08:00	11/23/21 00:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/22/21 08:00	11/23/21 00:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/22/21 08:00	11/23/21 00:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/22/21 08:00	11/23/21 00:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/22/21 08:00	11/23/21 00:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/22/21 08:00	11/23/21 00:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			11/22/21 08:00	11/23/21 00:18	1
1,4-Difluorobenzene (Surr)	72		70 - 130			11/22/21 08:00	11/23/21 00:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/23/21 08:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/23/21 08:57	11/23/21 18:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/23/21 08:57	11/23/21 18:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/23/21 08:57	11/23/21 18:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			11/23/21 08:57	11/23/21 18:54	1
o-Terphenyl (Surr)	112		70 - 130			11/23/21 08:57	11/23/21 18:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	789		4.99	mg/Kg			12/03/21 23:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1045

Lab Sample ID: 890-1603-11

Date Collected: 11/18/21 15:08

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:30	11/23/21 16:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:30	11/23/21 16:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:30	11/23/21 16:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/23/21 08:30	11/23/21 16:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:30	11/23/21 16:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/23/21 08:30	11/23/21 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	11/23/21 08:30	11/23/21 16:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/23/21 08:30	11/23/21 16:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/23/21 08:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 19:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 19:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130	11/23/21 08:57	11/23/21 19:15	1
o-Terphenyl (Surr)	111		70 - 130	11/23/21 08:57	11/23/21 19:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		5.00	mg/Kg			12/04/21 00:08	1

Client Sample ID: C-1046

Lab Sample ID: 890-1603-12

Date Collected: 11/18/21 15:09

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/23/21 08:30	11/23/21 17:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/23/21 08:30	11/23/21 17:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/23/21 08:30	11/23/21 17:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/23/21 08:30	11/23/21 17:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/23/21 08:30	11/23/21 17:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/23/21 08:30	11/23/21 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	11/23/21 08:30	11/23/21 17:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1046

Lab Sample ID: 890-1603-12

Date Collected: 11/18/21 15:09

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	11/23/21 08:30	11/23/21 17:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/23/21 08:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 19:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 19:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/23/21 08:57	11/23/21 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			11/23/21 08:57	11/23/21 19:36	1
o-Terphenyl (Surr)	114		70 - 130			11/23/21 08:57	11/23/21 19:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	958		4.95	mg/Kg			12/04/21 00:42	1

Client Sample ID: C-1047

Lab Sample ID: 890-1603-13

Date Collected: 11/18/21 15:10

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/23/21 08:30	11/23/21 17:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/23/21 08:30	11/23/21 17:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/23/21 08:30	11/23/21 17:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/23/21 08:30	11/23/21 17:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/23/21 08:30	11/23/21 17:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/23/21 08:30	11/23/21 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	11/23/21 08:30	11/23/21 17:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/23/21 08:30	11/23/21 17:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/24/21 10:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/23/21 08:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1047

Lab Sample ID: 890-1603-13

Date Collected: 11/18/21 15:10

Matrix: Solid

Date Received: 11/18/21 16:13

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 19:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 19:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130			11/23/21 08:57	11/23/21 19:58	1
o-Terphenyl (Surr)	103		70 - 130			11/23/21 08:57	11/23/21 19:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	368		4.97	mg/Kg			12/04/21 00:54	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-8509-A-21-I MS	Matrix Spike	128	86
880-8509-A-21-J MSD	Matrix Spike Duplicate	111	104
880-8509-A-23-B MS	Matrix Spike	91	123
880-8509-A-23-C MSD	Matrix Spike Duplicate	90	116
880-8571-A-1-F MS	Matrix Spike	116	98
880-8571-A-1-G MSD	Matrix Spike Duplicate	117	101
890-1603-1	C-1122	116	105
890-1603-2	C-1128	118	99
890-1603-3	C-1037	118	101
890-1603-4	C-1038	114	107
890-1603-5	C-1039	114	98
890-1603-6	C-1040	115	101
890-1603-7	C-1041	107	103
890-1603-8	C-1042	120	99
890-1603-9	C-1043	113	109
890-1603-10	C-1044	105	72
890-1603-11	C-1045	118	100
890-1603-12	C-1046	123	104
890-1603-13	C-1047	114	94
LCS 880-12786/1-A	Lab Control Sample	117	113
LCS 880-12798/1-A	Lab Control Sample	104	100
LCS 880-12919/1-A	Lab Control Sample	112	99
LCSD 880-12786/2-A	Lab Control Sample Dup	100	111
LCSD 880-12798/2-A	Lab Control Sample Dup	107	104
LCSD 880-12919/2-A	Lab Control Sample Dup	106	95
MB 880-12786/5-A	Method Blank	66 S1-	100
MB 880-12798/5-A	Method Blank	106	99
MB 880-12919/5-A	Method Blank	121	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1602-A-11-H MS	Matrix Spike	97	88
890-1602-A-11-I MSD	Matrix Spike Duplicate	100	89
890-1603-1	C-1122	104	105
890-1603-2	C-1128	125	124
890-1603-3	C-1037	112	111
890-1603-4	C-1038	111	109
890-1603-5	C-1039	113	113
890-1603-6	C-1040	132 S1+	133 S1+
890-1603-7	C-1041	130	135 S1+
890-1603-8	C-1042	110	111
890-1603-9	C-1043	126	132 S1+

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1603-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1603-10	C-1044	113	112
890-1603-11	C-1045	113	111
890-1603-12	C-1046	115	114
890-1603-13	C-1047	106	103
890-1609-A-1-K MS	Matrix Spike	127	117
890-1609-A-1-L MSD	Matrix Spike Duplicate	112	97
LCS 880-13010/2-A	Lab Control Sample	309 S1+	300 S1+
LCS 880-13113/2-A	Lab Control Sample	299 S1+	284 S1+
LCSD 880-13010/3-A	Lab Control Sample Dup	301 S1+	292 S1+
LCSD 880-13113/3-A	Lab Control Sample Dup	297 S1+	286 S1+
MB 880-13010/1-A	Method Blank	141 S1+	141 S1+
MB 880-13113/1-A	Method Blank	141 S1+	142 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12786/5-A

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12786

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/22/21 08:00	11/22/21 15:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/22/21 08:00	11/22/21 15:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/22/21 08:00	11/22/21 15:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/22/21 08:00	11/22/21 15:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/22/21 08:00	11/22/21 15:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/22/21 08:00	11/22/21 15:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	11/22/21 08:00	11/22/21 15:17	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/22/21 08:00	11/22/21 15:17	1

Lab Sample ID: LCS 880-12786/1-A

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09549		mg/Kg		95	70 - 130
Toluene	0.100	0.1078		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1096		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2452		mg/Kg		123	70 - 130
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-12786/2-A

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12786

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08790		mg/Kg		88	70 - 130	8	35
Toluene	0.100	0.08563		mg/Kg		86	70 - 130	23	35
Ethylbenzene	0.100	0.08519		mg/Kg		85	70 - 130	25	35
m-Xylene & p-Xylene	0.200	0.1905		mg/Kg		95	70 - 130	25	35
o-Xylene	0.100	0.08983		mg/Kg		90	70 - 130	23	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-8509-A-23-B MS

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.06002	F1	mg/Kg		60	70 - 130
Toluene	<0.00199	U F1	0.100	0.05472	F1	mg/Kg		55	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-8509-A-23-B MS

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F1	0.100	0.04726	F1	mg/Kg		47	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1012	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.05081	F1	mg/Kg		51	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: 880-8509-A-23-C MSD

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1	0.0998	0.05758	F1	mg/Kg		58	70 - 130	4	35
Toluene	<0.00199	U F1	0.0998	0.05483	F1	mg/Kg		55	70 - 130	0	35
Ethylbenzene	<0.00199	U F1	0.0998	0.04956	F1	mg/Kg		50	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1065	F1	mg/Kg		53	70 - 130	5	35
o-Xylene	<0.00199	U F1	0.0998	0.05334	F1	mg/Kg		53	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: MB 880-12798/5-A

Matrix: Solid

Analysis Batch: 12991

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12798

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 11:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 11:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/23/21 08:15	11/23/21 11:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:15	11/23/21 11:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/23/21 08:15	11/23/21 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	11/23/21 08:15	11/23/21 11:26	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/23/21 08:15	11/23/21 11:26	1

Lab Sample ID: LCS 880-12798/1-A

Matrix: Solid

Analysis Batch: 12991

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09400		mg/Kg		94	70 - 130
Toluene	0.100	0.08963		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08826		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1861		mg/Kg		93	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-12798/1-A

Matrix: Solid

Analysis Batch: 12991

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.09220		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-12798/2-A

Matrix: Solid

Analysis Batch: 12991

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12798

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09642		mg/Kg		96	70 - 130	3	35
Toluene	0.100	0.09139		mg/Kg		91	70 - 130	2	35
Ethylbenzene	0.100	0.09158		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1917		mg/Kg		96	70 - 130	3	35
o-Xylene	0.100	0.09431		mg/Kg		94	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-8509-A-21-I MS

Matrix: Solid

Analysis Batch: 12991

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.0998	0.01923	F1	mg/Kg		18	70 - 130
Toluene	<0.00199	U F2 F1	0.0998	0.02465	F1	mg/Kg		24	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.02735	F1	mg/Kg		26	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.04375	F1	mg/Kg		22	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.03361	F1	mg/Kg		32	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-8509-A-21-J MSD

Matrix: Solid

Analysis Batch: 12991

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.101	0.06006	F2 F1	mg/Kg		59	70 - 130	103	35
Toluene	<0.00199	U F2 F1	0.101	0.04947	F2 F1	mg/Kg		49	70 - 130	67	35
Ethylbenzene	<0.00199	U F2 F1	0.101	0.04158	F2 F1	mg/Kg		40	70 - 130	41	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.201	0.08518	F2 F1	mg/Kg		42	70 - 130	64	35
o-Xylene	<0.00199	U F1	0.101	0.04121	F1	mg/Kg		39	70 - 130	20	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-8509-A-21-J MSD

Matrix: Solid

Analysis Batch: 12991

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12798

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-12919/5-A

Matrix: Solid

Analysis Batch: 13000

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12919

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:30	11/23/21 11:33	1	
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:30	11/23/21 11:33	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:30	11/23/21 11:33	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/23/21 08:30	11/23/21 11:33	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/21 08:30	11/23/21 11:33	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/23/21 08:30	11/23/21 11:33	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	121		70 - 130	11/23/21 08:30	11/23/21 11:33	1			
1,4-Difluorobenzene (Surr)	95		70 - 130	11/23/21 08:30	11/23/21 11:33	1			

Lab Sample ID: LCS 880-12919/1-A

Matrix: Solid

Analysis Batch: 13000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12919

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.08665		mg/Kg		87	70 - 130		
Toluene	0.100	0.08939		mg/Kg		89	70 - 130		
Ethylbenzene	0.100	0.08923		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene	0.200	0.1778		mg/Kg		89	70 - 130		
o-Xylene	0.100	0.08985		mg/Kg		90	70 - 130		

	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	112		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: LCSD 880-12919/2-A

Matrix: Solid

Analysis Batch: 13000

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12919

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07779		mg/Kg		78	70 - 130	11	35	
Toluene	0.100	0.08279		mg/Kg		83	70 - 130	8	35	
Ethylbenzene	0.100	0.08447		mg/Kg		84	70 - 130	5	35	
m-Xylene & p-Xylene	0.200	0.1618		mg/Kg		81	70 - 130	9	35	
o-Xylene	0.100	0.08066		mg/Kg		81	70 - 130	11	35	

	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	106		70 - 130							

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-12919/2-A

Matrix: Solid

Analysis Batch: 13000

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12919

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-8571-A-1-F MS

Matrix: Solid

Analysis Batch: 13000

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12919

	Sample	Sample	Spike	MS	MS			%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00199	U	0.100	0.08913		mg/Kg		89	70 - 130
Toluene	<0.00199	U	0.100	0.09511		mg/Kg		94	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.08993		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1726		mg/Kg		85	70 - 130
o-Xylene	<0.00199	U	0.100	0.08478		mg/Kg		84	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-8571-A-1-G MSD

Matrix: Solid

Analysis Batch: 13000

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12919

	Sample	Sample	Spike	MSD	MSD			%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.101	0.07947		mg/Kg		79	70 - 130	11	35
Toluene	<0.00199	U	0.101	0.08328		mg/Kg		82	70 - 130	13	35
Ethylbenzene	<0.00199	U	0.101	0.08478		mg/Kg		84	70 - 130	6	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1669		mg/Kg		82	70 - 130	3	35
o-Xylene	<0.00199	U	0.101	0.08092		mg/Kg		80	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-13010/1-A

Matrix: Solid

Analysis Batch: 13046

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13010

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 11:43		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 11:43		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/23/21 08:57	11/23/21 11:43		1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
1-Chlorooctane (Surr)	141	S1+	70 - 130	11/23/21 08:57	11/23/21 11:43		1		
o-Terphenyl (Surr)	141	S1+	70 - 130	11/23/21 08:57	11/23/21 11:43		1		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-13010/2-A

Matrix: Solid

Analysis Batch: 13046

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13010

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1147		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	972.6		mg/Kg		97	70 - 130		

Lab Sample ID: LCSD 880-13010/3-A

Matrix: Solid

Analysis Batch: 13046

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13010

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1237		mg/Kg		124	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	940.4		mg/Kg		94	70 - 130	3	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	301	S1+	70 - 130								
o-Terphenyl (Surr)	292	S1+	70 - 130								

Lab Sample ID: 890-1602-A-11-H MS

Matrix: Solid

Analysis Batch: 13046

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13010

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1281		mg/Kg		129	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1005		mg/Kg		101	70 - 130		
		</									

Lab Sample ID: 890-1602-A-11-I MSD

Matrix: Solid

Analysis Batch: 13046

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13010

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1182		mg/Kg		118	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1033		mg/Kg		103	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	100		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1602-A-11-I MSD

Matrix: Solid

Analysis Batch: 13046

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13010

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	89		70 - 130

Lab Sample ID: MB 880-13113/1-A

Matrix: Solid

Analysis Batch: 13221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13113

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/21 08:16	11/24/21 13:24	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/21 08:16	11/24/21 13:24	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/21 08:16	11/24/21 13:24	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1-Chlorooctane (Surr)	141	S1+	70 - 130			11/24/21 08:16	11/24/21 13:24	1	
<i>o</i> -Terphenyl (Surr)	142	S1+	70 - 130			11/24/21 08:16	11/24/21 13:24	1	

Lab Sample ID: LCS 880-13113/2-A

Matrix: Solid

Analysis Batch: 13221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13113

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10		1000	976.6		mg/Kg		98	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	913.3		mg/Kg		91	70 - 130	
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	299	S1+	70 - 130						
<i>o</i> -Terphenyl (Surr)	284	S1+	70 - 130						

Lab Sample ID: LCSD 880-13113/3-A

Matrix: Solid

Analysis Batch: 13221

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13113

		Spike	LCSD	LCSD				%Rec.		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10		1000	963.4		mg/Kg		96	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)		1000	910.4		mg/Kg		91	70 - 130	0	20	
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	297	S1+	70 - 130								
<i>o</i> -Terphenyl (Surr)	286	S1+	70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1609-A-1-K MS

Matrix: Solid

Analysis Batch: 13221

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13113

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	997	1262		mg/Kg		124	70 - 130		
Diesel Range Organics (Over C10-C28)	187		997	1242		mg/Kg		106	70 - 130		

Lab Sample ID: 890-1609-A-1-L MSD

Matrix: Solid

Analysis Batch: 13221

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13113

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	999	1717	F1 F2	mg/Kg		170	70 - 130	31	20
Diesel Range Organics (Over C10-C28)	187		999	1101		mg/Kg		91	70 - 130	12	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	112		70 - 130								
o-Terphenyl (Surr)	97		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12986/1-A

Matrix: Solid

Analysis Batch: 13351

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/03/21 20:55	1

Lab Sample ID: LCS 880-12986/2-A

Matrix: Solid

Analysis Batch: 13351

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	249.1		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-12986/3-A

Matrix: Solid

Analysis Batch: 13351

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.6		mg/Kg		100	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1603-1 MS

Matrix: Solid

Analysis Batch: 13351

Client Sample ID: C-1122

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	507		250	749.7		mg/Kg		97	90 - 110		

Lab Sample ID: 890-1603-1 MSD

Matrix: Solid

Analysis Batch: 13351

Client Sample ID: C-1122

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	507		250	740.9		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 890-1603-11 MS

Matrix: Solid

Analysis Batch: 13351

Client Sample ID: C-1045

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1050		250	1278	4	mg/Kg		89	90 - 110		

Lab Sample ID: 890-1603-11 MSD

Matrix: Solid

Analysis Batch: 13351

Client Sample ID: C-1045

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1050		250	1270	4	mg/Kg		86	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

GC VOA

Prep Batch: 12786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-9	C-1043	Total/NA	Solid	5035	
890-1603-10	C-1044	Total/NA	Solid	5035	
MB 880-12786/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12786/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12786/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8509-A-23-B MS	Matrix Spike	Total/NA	Solid	5035	
880-8509-A-23-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 12798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-1	C-1122	Total/NA	Solid	5035	
890-1603-2	C-1128	Total/NA	Solid	5035	
890-1603-3	C-1037	Total/NA	Solid	5035	
890-1603-4	C-1038	Total/NA	Solid	5035	
890-1603-5	C-1039	Total/NA	Solid	5035	
890-1603-6	C-1040	Total/NA	Solid	5035	
890-1603-7	C-1041	Total/NA	Solid	5035	
890-1603-8	C-1042	Total/NA	Solid	5035	
MB 880-12798/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12798/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12798/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8509-A-21-I MS	Matrix Spike	Total/NA	Solid	5035	
880-8509-A-21-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 12909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-9	C-1043	Total/NA	Solid	8021B	12786
890-1603-10	C-1044	Total/NA	Solid	8021B	12786
MB 880-12786/5-A	Method Blank	Total/NA	Solid	8021B	12786
LCS 880-12786/1-A	Lab Control Sample	Total/NA	Solid	8021B	12786
LCSD 880-12786/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12786
880-8509-A-23-B MS	Matrix Spike	Total/NA	Solid	8021B	12786
880-8509-A-23-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	12786

Prep Batch: 12919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-11	C-1045	Total/NA	Solid	5035	
890-1603-12	C-1046	Total/NA	Solid	5035	
890-1603-13	C-1047	Total/NA	Solid	5035	
MB 880-12919/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12919/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12919/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8571-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-8571-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 12945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-1	C-1122	Total/NA	Solid	Total BTEX	
890-1603-2	C-1128	Total/NA	Solid	Total BTEX	
890-1603-3	C-1037	Total/NA	Solid	Total BTEX	
890-1603-4	C-1038	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 12945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-5	C-1039	Total/NA	Solid	Total BTEX	
890-1603-6	C-1040	Total/NA	Solid	Total BTEX	
890-1603-7	C-1041	Total/NA	Solid	Total BTEX	
890-1603-8	C-1042	Total/NA	Solid	Total BTEX	
890-1603-9	C-1043	Total/NA	Solid	Total BTEX	
890-1603-10	C-1044	Total/NA	Solid	Total BTEX	
890-1603-11	C-1045	Total/NA	Solid	Total BTEX	
890-1603-12	C-1046	Total/NA	Solid	Total BTEX	
890-1603-13	C-1047	Total/NA	Solid	Total BTEX	

Analysis Batch: 12991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-1	C-1122	Total/NA	Solid	8021B	12798
890-1603-2	C-1128	Total/NA	Solid	8021B	12798
890-1603-3	C-1037	Total/NA	Solid	8021B	12798
890-1603-4	C-1038	Total/NA	Solid	8021B	12798
890-1603-5	C-1039	Total/NA	Solid	8021B	12798
890-1603-6	C-1040	Total/NA	Solid	8021B	12798
890-1603-7	C-1041	Total/NA	Solid	8021B	12798
890-1603-8	C-1042	Total/NA	Solid	8021B	12798
MB 880-12798/5-A	Method Blank	Total/NA	Solid	8021B	12798
LCS 880-12798/1-A	Lab Control Sample	Total/NA	Solid	8021B	12798
LCSD 880-12798/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12798
880-8509-A-21-I MS	Matrix Spike	Total/NA	Solid	8021B	12798
880-8509-A-21-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	12798

Analysis Batch: 13000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-11	C-1045	Total/NA	Solid	8021B	12919
890-1603-12	C-1046	Total/NA	Solid	8021B	12919
890-1603-13	C-1047	Total/NA	Solid	8021B	12919
MB 880-12919/5-A	Method Blank	Total/NA	Solid	8021B	12919
LCS 880-12919/1-A	Lab Control Sample	Total/NA	Solid	8021B	12919
LCSD 880-12919/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12919
880-8571-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	12919
880-8571-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	12919

GC Semi VOA

Analysis Batch: 12781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-1	C-1122	Total/NA	Solid	8015 NM	
890-1603-2	C-1128	Total/NA	Solid	8015 NM	
890-1603-3	C-1037	Total/NA	Solid	8015 NM	
890-1603-4	C-1038	Total/NA	Solid	8015 NM	
890-1603-5	C-1039	Total/NA	Solid	8015 NM	
890-1603-6	C-1040	Total/NA	Solid	8015 NM	
890-1603-7	C-1041	Total/NA	Solid	8015 NM	
890-1603-8	C-1042	Total/NA	Solid	8015 NM	
890-1603-9	C-1043	Total/NA	Solid	8015 NM	
890-1603-10	C-1044	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 12781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-11	C-1045	Total/NA	Solid	8015 NM	
890-1603-12	C-1046	Total/NA	Solid	8015 NM	
890-1603-13	C-1047	Total/NA	Solid	8015 NM	

Prep Batch: 13010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-1	C-1122	Total/NA	Solid	8015NM Prep	
890-1603-2	C-1128	Total/NA	Solid	8015NM Prep	
890-1603-3	C-1037	Total/NA	Solid	8015NM Prep	
890-1603-4	C-1038	Total/NA	Solid	8015NM Prep	
890-1603-5	C-1039	Total/NA	Solid	8015NM Prep	
890-1603-6	C-1040	Total/NA	Solid	8015NM Prep	
890-1603-7	C-1041	Total/NA	Solid	8015NM Prep	
890-1603-8	C-1042	Total/NA	Solid	8015NM Prep	
890-1603-9	C-1043	Total/NA	Solid	8015NM Prep	
890-1603-10	C-1044	Total/NA	Solid	8015NM Prep	
890-1603-11	C-1045	Total/NA	Solid	8015NM Prep	
890-1603-12	C-1046	Total/NA	Solid	8015NM Prep	
890-1603-13	C-1047	Total/NA	Solid	8015NM Prep	
MB 880-13010/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13010/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13010/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1602-A-11-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1602-A-11-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-1	C-1122	Total/NA	Solid	8015B NM	13010
890-1603-2	C-1128	Total/NA	Solid	8015B NM	13010
890-1603-3	C-1037	Total/NA	Solid	8015B NM	13010
890-1603-4	C-1038	Total/NA	Solid	8015B NM	13010
890-1603-5	C-1039	Total/NA	Solid	8015B NM	13010
890-1603-6	C-1040	Total/NA	Solid	8015B NM	13010
890-1603-7	C-1041	Total/NA	Solid	8015B NM	13010
890-1603-8	C-1042	Total/NA	Solid	8015B NM	13010
890-1603-9	C-1043	Total/NA	Solid	8015B NM	13010
890-1603-10	C-1044	Total/NA	Solid	8015B NM	13010
890-1603-11	C-1045	Total/NA	Solid	8015B NM	13010
890-1603-12	C-1046	Total/NA	Solid	8015B NM	13010
890-1603-13	C-1047	Total/NA	Solid	8015B NM	13010
MB 880-13010/1-A	Method Blank	Total/NA	Solid	8015B NM	13010
LCS 880-13010/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13010
LCSD 880-13010/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13010
890-1602-A-11-H MS	Matrix Spike	Total/NA	Solid	8015B NM	13010
890-1602-A-11-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13010

Prep Batch: 13113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-13113/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13113/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13113/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 13113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1609-A-1-K MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1609-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-13113/1-A	Method Blank	Total/NA	Solid	8015B NM	13113
LCS 880-13113/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13113
LCSD 880-13113/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13113
890-1609-A-1-K MS	Matrix Spike	Total/NA	Solid	8015B NM	13113
890-1609-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13113

HPLC/IC

Leach Batch: 12986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-1	C-1122	Soluble	Solid	DI Leach	
890-1603-2	C-1128	Soluble	Solid	DI Leach	
890-1603-3	C-1037	Soluble	Solid	DI Leach	
890-1603-4	C-1038	Soluble	Solid	DI Leach	
890-1603-5	C-1039	Soluble	Solid	DI Leach	
890-1603-6	C-1040	Soluble	Solid	DI Leach	
890-1603-7	C-1041	Soluble	Solid	DI Leach	
890-1603-8	C-1042	Soluble	Solid	DI Leach	
890-1603-9	C-1043	Soluble	Solid	DI Leach	
890-1603-10	C-1044	Soluble	Solid	DI Leach	
890-1603-11	C-1045	Soluble	Solid	DI Leach	
890-1603-12	C-1046	Soluble	Solid	DI Leach	
890-1603-13	C-1047	Soluble	Solid	DI Leach	
MB 880-12986/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12986/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12986/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1603-1 MS	C-1122	Soluble	Solid	DI Leach	
890-1603-1 MSD	C-1122	Soluble	Solid	DI Leach	
890-1603-11 MS	C-1045	Soluble	Solid	DI Leach	
890-1603-11 MSD	C-1045	Soluble	Solid	DI Leach	

Analysis Batch: 13351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1603-1	C-1122	Soluble	Solid	300.0	12986
890-1603-2	C-1128	Soluble	Solid	300.0	12986
890-1603-3	C-1037	Soluble	Solid	300.0	12986
890-1603-4	C-1038	Soluble	Solid	300.0	12986
890-1603-5	C-1039	Soluble	Solid	300.0	12986
890-1603-6	C-1040	Soluble	Solid	300.0	12986
890-1603-7	C-1041	Soluble	Solid	300.0	12986
890-1603-8	C-1042	Soluble	Solid	300.0	12986
890-1603-9	C-1043	Soluble	Solid	300.0	12986
890-1603-10	C-1044	Soluble	Solid	300.0	12986
890-1603-11	C-1045	Soluble	Solid	300.0	12986
890-1603-12	C-1046	Soluble	Solid	300.0	12986
890-1603-13	C-1047	Soluble	Solid	300.0	12986

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 13351 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12986/1-A	Method Blank	Soluble	Solid	300.0	12986
LCS 880-12986/2-A	Lab Control Sample	Soluble	Solid	300.0	12986
LCSD 880-12986/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12986
890-1603-1 MS	C-1122	Soluble	Solid	300.0	12986
890-1603-1 MSD	C-1122	Soluble	Solid	300.0	12986
890-1603-11 MS	C-1045	Soluble	Solid	300.0	12986
890-1603-11 MSD	C-1045	Soluble	Solid	300.0	12986

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1122

Lab Sample ID: 890-1603-1

Date Collected: 11/18/21 12:35

Matrix: Solid

Date Received: 11/18/21 16:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12798	11/23/21 08:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12991	11/23/21 16:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 15:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/03/21 21:29	CH	XEN MID

Client Sample ID: C-1128

Lab Sample ID: 890-1603-2

Date Collected: 11/18/21 12:41

Matrix: Solid

Date Received: 11/18/21 16:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	12798	11/23/21 08:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12991	11/23/21 16:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 15:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/03/21 22:03	CH	XEN MID

Client Sample ID: C-1037

Lab Sample ID: 890-1603-3

Date Collected: 11/18/21 15:00

Matrix: Solid

Date Received: 11/18/21 16:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12798	11/23/21 08:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12991	11/23/21 17:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 16:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/03/21 22:14	CH	XEN MID

Client Sample ID: C-1038

Lab Sample ID: 890-1603-4

Date Collected: 11/18/21 15:01

Matrix: Solid

Date Received: 11/18/21 16:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12798	11/23/21 08:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12991	11/23/21 17:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1038

Lab Sample ID: 890-1603-4

Date Collected: 11/18/21 15:01

Matrix: Solid

Date Received: 11/18/21 16:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 16:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/03/21 22:26	CH	XEN MID

Client Sample ID: C-1039

Lab Sample ID: 890-1603-5

Date Collected: 11/18/21 15:02

Matrix: Solid

Date Received: 11/18/21 16:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12798	11/23/21 08:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12991	11/23/21 17:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 16:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/03/21 22:37	CH	XEN MID

Client Sample ID: C-1040

Lab Sample ID: 890-1603-6

Date Collected: 11/18/21 15:03

Matrix: Solid

Date Received: 11/18/21 16:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12798	11/23/21 08:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12991	11/23/21 18:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 17:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/03/21 23:11	CH	XEN MID

Client Sample ID: C-1041

Lab Sample ID: 890-1603-7

Date Collected: 11/18/21 15:04

Matrix: Solid

Date Received: 11/18/21 16:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12798	11/23/21 08:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12991	11/23/21 18:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 17:49	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1041**Lab Sample ID: 890-1603-7****Date Collected: 11/18/21 15:04****Matrix: Solid****Date Received: 11/18/21 16:13**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/03/21 23:23	CH	XEN MID

Client Sample ID: C-1042**Lab Sample ID: 890-1603-8****Date Collected: 11/18/21 15:05****Matrix: Solid****Date Received: 11/18/21 16:13**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12798	11/23/21 08:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12991	11/23/21 18:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 18:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/03/21 23:34	CH	XEN MID

Client Sample ID: C-1043**Lab Sample ID: 890-1603-9****Date Collected: 11/18/21 15:06****Matrix: Solid****Date Received: 11/18/21 16:13**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12786	11/22/21 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12909	11/22/21 23:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 18:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/03/21 23:46	CH	XEN MID

Client Sample ID: C-1044**Lab Sample ID: 890-1603-10****Date Collected: 11/18/21 15:07****Matrix: Solid****Date Received: 11/18/21 16:13**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12786	11/22/21 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12909	11/23/21 00:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 18:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/03/21 23:57	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Client Sample ID: C-1045**Lab Sample ID: 890-1603-11****Date Collected: 11/18/21 15:08****Matrix: Solid****Date Received: 11/18/21 16:13**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12919	11/23/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13000	11/23/21 16:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 19:15	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/04/21 00:08	CH	XEN MID

Client Sample ID: C-1046**Lab Sample ID: 890-1603-12****Date Collected: 11/18/21 15:09****Matrix: Solid****Date Received: 11/18/21 16:13**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12919	11/23/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13000	11/23/21 17:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 19:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/04/21 00:42	CH	XEN MID

Client Sample ID: C-1047**Lab Sample ID: 890-1603-13****Date Collected: 11/18/21 15:10****Matrix: Solid****Date Received: 11/18/21 16:13**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12919	11/23/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13000	11/23/21 17:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/23/21 08:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13010	11/23/21 08:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13046	11/23/21 19:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12986	11/22/21 18:31	CA	XEN MID
Soluble	Analysis	300.0		1			13351	12/04/21 00:54	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1603-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1603-1	C-1122	Solid	11/18/21 12:35	11/18/21 16:13	2.5
890-1603-2	C-1128	Solid	11/18/21 12:41	11/18/21 16:13	2.5
890-1603-3	C-1037	Solid	11/18/21 15:00	11/18/21 16:13	4.1
890-1603-4	C-1038	Solid	11/18/21 15:01	11/18/21 16:13	4.1
890-1603-5	C-1039	Solid	11/18/21 15:02	11/18/21 16:13	4.1
890-1603-6	C-1040	Solid	11/18/21 15:03	11/18/21 16:13	4.1
890-1603-7	C-1041	Solid	11/18/21 15:04	11/18/21 16:13	4.1
890-1603-8	C-1042	Solid	11/18/21 15:05	11/18/21 16:13	4.1
890-1603-9	C-1043	Solid	11/18/21 15:06	11/18/21 16:13	4.1
890-1603-10	C-1044	Solid	11/18/21 15:07	11/18/21 16:13	4.1
890-1603-11	C-1045	Solid	11/18/21 15:08	11/18/21 16:13	4.1
890-1603-12	C-1046	Solid	11/18/21 15:09	11/18/21 16:13	4.1
890-1603-13	C-1047	Solid	11/18/21 15:10	11/18/21 16:13	4.1

Varson & Associates, Inc.

Environmental Consultants



890-1603 Chain of Custody

Data Reported to

 TRRP report?
☐ Yes ☒ No

 S=SOIL
 W=WATER
 A=AIR
 P=PAINT
 SL=SLUDGE
 OT=OTHER

 TIME ZONE
 Time zone/State
 MST/M

 Field
 Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄

NaOH

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX

TPH

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PESTICIDES

TCLP - METALS (RCRA)

TCLP - PEST

TOTAL METALS (RCRA)

LEAD - TOTAL

RCI

IDS

PH

EXPLOSIVES

CHLORIDE

ANIONS

ALKALINITY

CYANIDE

TCLP VOC

TCLP

FLASHPOINT

% MOISTURE

OTHER LIST

FIELD NOTES

DATE: 11-18-21

PAGE 1 OF 1

PO#:

LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Palmis As

LAI PROJECT #: 21-0105-02

COLLECTOR: TP

CHAIN-OF-CUSTODY

No. 2229

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
C-1122 2.5'		11/18/21	1235	S	1							X	
C-1128 2.5'			1241									X	
C-1037 4.1'			1500									X	
C-1038 4.1'			1501									X	
C-1039 4.1'			1502									X	
C-1040 4.1'			1503									X	
C-1041 4.1'			1504									X	
C-1042 4.1'			1505									X	
C-1043 4.1'			1506									X	
C-1044 4.1'			1507									X	
C-1045 4.1'			1508									X	
C-1046 4.1'			1509									X	
C-1047 4.1'			1510									X	
TOTAL 13													

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

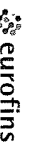
Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler		Lab PM		Carrier Tracking No(s)		COC No	
Client Contact:		Phone:		Taylor Holly		State of Origin:		890-516-1	
Shipping/Receiving		E-Mail		holly.taylor@eurofins.com		New Mexico		Page 1 of 2	
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #:		890-1603-1		Page 1 of 2	
Address: 1211 W Florida Ave		Due Date Requested: 11/24/2021		Analysis Requested		Preservation Codes		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Ammonia H Acetic Acid I Ice J DI Water K EDTA L EDTA M Hexane N None O AsH3O2 P Na2OAS Q Na2SO3 R Na2S2O3 S - H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify)	
City: Midland		TAT Requested (days):		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	
State Zip: TX 79701		PO #:		8015MOD_NM/8015NM_S_Prep (MOD) Full TPH		8015MOD_Calc		300_ORGFM_28D/DI_LEACH Chloride	
Phone: 432-704-5440(Tel)		WO #:		8021B/6036FP_Calc (MOD) BTEX - LL		Total_BTEX_GCV			
Email:		Project #:							
Project Name: Palmco Ast		SSDW#:							
Site:									
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (Water, Soil, Co-waste, etc.)	
C-1122 (890-1603-1)		11/18/21		12:35		Solid		Solid	
C-1128 (890-1603-2)		11/18/21		12:41		Solid		Solid	
C-1037 (890-1603-3)		11/18/21		15:00		Solid		Solid	
C-1038 (890-1603-4)		11/18/21		15:01		Solid		Solid	
C-1039 (890-1603-5)		11/18/21		15:02		Solid		Solid	
C-1040 (890-1603-6)		11/18/21		15:03		Solid		Solid	
C-1041 (890-1603-7)		11/18/21		15:04		Solid		Solid	
C-1042 (890-1603-8)		11/18/21		15:05		Solid		Solid	
C-1043 (890-1603-9)		11/18/21		15:06		Solid		Solid	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank 2							
Empty Kit Relinquished by		Date/Time		Company		Received by		Date/Time	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No				Cooler Temperature(s) °C and Other Remarks.		4.2/4.3	

Eurofins Xenco. Carlsbad

1089 N Canal St

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing

[illegible]

Chain of Custody Record



Environment Testing
America

Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone 575-988-3199 Fax 575-988-3199

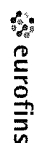
Client Information (Sub Contract Lab)		Sampler		Lab PM		Carrier/Tracking No(s)		COC No																			
Client Contact		Phone		Taylor, Holly		State of Origin		890-516-1																			
Shipping/Receiving		E-Mail		holly.taylor@eurofinsnet.com		New Mexico		Page 1 of 2																			
Company		Eurofins Xenco		Accreditations Required (See note)		NELAP - Louisiana NELAP - Texas		Job #																			
Address		1211 W Florida Ave		Due Date Requested		11/24/2021		890-1603-1																			
City		Midland		TAT Requested (days):																							
State, Zip		TX 79701		PO #																							
Phone		432-704-5440(Tel)		WO #																							
Email				Project #																							
Project Name		Palmo Ast		SSOV#																							
Site																											
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (Water, Solid, Co-waste, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Analysis Requested		Preservation Codes		Special Instructions/Note:							
C-1122 (890-1603-1)				11/18/21		12:35		Mountain		Solid		X		X		X		X		X		Total Number of containers		X			
C-1128 (890-1603-2)				11/18/21		12:41		Mountain		Solid		X		X		X		X		X		1					
C-1037 (890-1603-3)				11/18/21		15:00		Mountain		Solid		X		X		X		X		X		1					
C-1038 (890-1603-4)				11/18/21		15:01		Mountain		Solid		X		X		X		X		X		1					
C-1039 (890-1603-5)				11/18/21		15:02		Mountain		Solid		X		X		X		X		X		1					
C-1040 (890-1603-6)				11/18/21		15:03		Mountain		Solid		X		X		X		X		X		1					
C-1041 (890-1603-7)				11/18/21		15:04		Mountain		Solid		X		X		X		X		X		1					
C-1042 (890-1603-8)				11/18/21		15:05		Mountain		Solid		X		X		X		X		X		1					
C-1043 (890-1603-9)				11/18/21		15:06		Mountain		Solid		X		X		X		X		X		1					
Possible Hazard Identification																											
Unconfirmed																											
Deliverable Requested I II III IV Other (specify)																											
Primary Deliverable Rank 2																											
Empty Kit Relinquished by																											
Relinquished by																											
Relinquished by																											
Relinquished by																											
Custody Seals Intact																											
Custody Seal No																											

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



**Environment™ Testing
America**

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1603-1

SDG Number: 21-0105-02

Login Number: 1603

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1603-1

SDG Number: 21-0105-02

Login Number: 1603

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 11/22/21 08:09 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2/4.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1615-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A rectangular box containing a handwritten signature in blue ink that reads "Brianna Teel".

Authorized for release by:
12/6/2021 1:43:50 PM
Brianna Teel, Project Manager
(432)704-5440
brianna.teel@eurofinset.com
Designee for
Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1615-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Job ID: 890-1615-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1615-1

Receipt

The samples were received on 11/22/2021 2:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 24.6°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Client Sample ID: C-746

Lab Sample ID: 890-1615-1

Date Collected: 11/22/21 12:00

Matrix: Solid

Date Received: 11/22/21 14:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/21 14:25	11/24/21 06:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/21 14:25	11/24/21 06:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/21 14:25	11/24/21 06:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/23/21 14:25	11/24/21 06:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/21 14:25	11/24/21 06:12	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/23/21 14:25	11/24/21 06:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	11/23/21 14:25	11/24/21 06:12	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/23/21 14:25	11/24/21 06:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/02/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/01/21 20:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/24/21 12:36	11/25/21 03:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/24/21 12:36	11/25/21 03:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/24/21 12:36	11/25/21 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130	11/24/21 12:36	11/25/21 03:07	1
o-Terphenyl (Surr)	133	S1+	70 - 130	11/24/21 12:36	11/25/21 03:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		5.00	mg/Kg			12/05/21 17:33	1

Client Sample ID: C-896

Lab Sample ID: 890-1615-2

Date Collected: 11/22/21 12:45

Matrix: Solid

Date Received: 11/22/21 14:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/21 14:25	11/24/21 06:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/21 14:25	11/24/21 06:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/21 14:25	11/24/21 06:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/23/21 14:25	11/24/21 06:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/21 14:25	11/24/21 06:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/23/21 14:25	11/24/21 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	11/23/21 14:25	11/24/21 06:38	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/23/21 14:25	11/24/21 06:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Client Sample ID: C-896

Lab Sample ID: 890-1615-2

Date Collected: 11/22/21 12:45

Matrix: Solid

Date Received: 11/22/21 14:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/02/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/01/21 20:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/24/21 12:36	11/25/21 03:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/24/21 12:36	11/25/21 03:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/24/21 12:36	11/25/21 03:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			11/24/21 12:36	11/25/21 03:29	1
o-Terphenyl (Surr)	128		70 - 130			11/24/21 12:36	11/25/21 03:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	674	F1	5.00	mg/Kg			12/05/21 17:55	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-8634-A-1-B MS	Matrix Spike	101	116
880-8634-A-1-C MSD	Matrix Spike Duplicate	103	122
890-1615-1	C-746	122	99
890-1615-2	C-896	125	106
LCS 880-13087/1-A	Lab Control Sample	103	111
LCSD 880-13087/2-A	Lab Control Sample Dup	100	108
MB 880-13087/5-A	Method Blank	71	97
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1613-A-1-F MS	Matrix Spike	109	106
890-1613-A-1-G MSD	Matrix Spike Duplicate	110	105
890-1615-1	C-746	117	133 S1+
890-1615-2	C-896	116	128
LCS 880-13223/2-A	Lab Control Sample	117	128
LCSD 880-13223/3-A	Lab Control Sample Dup	110	122
MB 880-13223/1-A	Method Blank	151 S1+	169 S1+
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13087/5-A

Matrix: Solid

Analysis Batch: 13097

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13087

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/23/21 14:25	11/23/21 19:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/23/21 14:25	11/23/21 19:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/23/21 14:25	11/23/21 19:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/23/21 14:25	11/23/21 19:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/23/21 14:25	11/23/21 19:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/23/21 14:25	11/23/21 19:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	11/23/21 14:25	11/23/21 19:58	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/23/21 14:25	11/23/21 19:58	1

Lab Sample ID: LCS 880-13087/1-A

Matrix: Solid

Analysis Batch: 13097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09322		mg/Kg		93	70 - 130
Toluene	0.100	0.09093		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09075		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09406		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-13087/2-A

Matrix: Solid

Analysis Batch: 13097

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13087

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09017		mg/Kg		90	70 - 130	3	35
Toluene	0.100	0.08766		mg/Kg		88	70 - 130	4	35
Ethylbenzene	0.100	0.08891		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1967		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.09053		mg/Kg		91	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-8634-A-1-B MS

Matrix: Solid

Analysis Batch: 13097

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0998	0.07882		mg/Kg		79	70 - 130
Toluene	<0.00200	U	0.0998	0.07875		mg/Kg		79	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-8634-A-1-B MS

Matrix: Solid

Analysis Batch: 13097

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.0998	0.07871		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1735		mg/Kg		87	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08048		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: 880-8634-A-1-C MSD

Matrix: Solid

Analysis Batch: 13097

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.07921		mg/Kg		80	70 - 130	0	35
Toluene	<0.00200	U	0.0994	0.07693		mg/Kg		77	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0994	0.07705		mg/Kg		78	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1699		mg/Kg		85	70 - 130	2	35
o-Xylene	<0.00200	U	0.0994	0.08075		mg/Kg		81	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-13223/1-A

Matrix: Solid

Analysis Batch: 13220

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13223

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/21 12:36	11/24/21 23:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/21 12:36	11/24/21 23:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/21 12:36	11/24/21 23:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	151	S1+	70 - 130	11/24/21 12:36	11/24/21 23:28	1
o-Terphenyl (Surr)	169	S1+	70 - 130	11/24/21 12:36	11/24/21 23:28	1

Lab Sample ID: LCS 880-13223/2-A

Matrix: Solid

Analysis Batch: 13220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13223

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	923.3		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1252		mg/Kg		125	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-13223/2-A

Matrix: Solid

Analysis Batch: 13220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13223

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	117		70 - 130
o-Terphenyl (Surr)	128		70 - 130

Lab Sample ID: LCSD 880-13223/3-A

Matrix: Solid

Analysis Batch: 13220

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13223

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	870.1		mg/Kg		87	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1240		mg/Kg		124	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	122		70 - 130

Lab Sample ID: 890-1613-A-1-F MS

Matrix: Solid

Analysis Batch: 13220

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13223

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1197		mg/Kg		120	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1168		mg/Kg		117	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	106		70 - 130

Lab Sample ID: 890-1613-A-1-G MSD

Matrix: Solid

Analysis Batch: 13220

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13223

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1217		mg/Kg		122	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1172		mg/Kg		117	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	105		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-13080/1-A

Matrix: Solid

Analysis Batch: 13927

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/05/21 13:45	1

Lab Sample ID: LCS 880-13080/2-A

Matrix: Solid

Analysis Batch: 13927

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.4		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-13080/3-A

Matrix: Solid

Analysis Batch: 13927

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	246.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-1615-2 MS

Matrix: Solid

Analysis Batch: 13927

Client Sample ID: C-896

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	674	F1	250	918.1		mg/Kg		98	90 - 110

Lab Sample ID: 890-1615-2 MSD

Matrix: Solid

Analysis Batch: 13927

Client Sample ID: C-896

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	674	F1	250	958.0	F1	mg/Kg		114	90 - 110	4	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

GC VOA

Prep Batch: 13087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1615-1	C-746	Total/NA	Solid	5035	
890-1615-2	C-896	Total/NA	Solid	5035	
MB 880-13087/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13087/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13087/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8634-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-8634-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 13097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1615-1	C-746	Total/NA	Solid	8021B	13087
890-1615-2	C-896	Total/NA	Solid	8021B	13087
MB 880-13087/5-A	Method Blank	Total/NA	Solid	8021B	13087
LCS 880-13087/1-A	Lab Control Sample	Total/NA	Solid	8021B	13087
LCSD 880-13087/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13087
880-8634-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	13087
880-8634-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	13087

Analysis Batch: 13794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1615-1	C-746	Total/NA	Solid	Total BTEX	
890-1615-2	C-896	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 13220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1615-1	C-746	Total/NA	Solid	8015B NM	13223
890-1615-2	C-896	Total/NA	Solid	8015B NM	13223
MB 880-13223/1-A	Method Blank	Total/NA	Solid	8015B NM	13223
LCS 880-13223/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13223
LCSD 880-13223/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13223
890-1613-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	13223
890-1613-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13223

Prep Batch: 13223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1615-1	C-746	Total/NA	Solid	8015NM Prep	
890-1615-2	C-896	Total/NA	Solid	8015NM Prep	
MB 880-13223/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13223/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13223/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1613-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1613-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1615-1	C-746	Total/NA	Solid	8015 NM	
890-1615-2	C-896	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 13080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1615-1	C-746	Soluble	Solid	DI Leach	
890-1615-2	C-896	Soluble	Solid	DI Leach	
MB 880-13080/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-13080/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-13080/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1615-2 MS	C-896	Soluble	Solid	DI Leach	
890-1615-2 MSD	C-896	Soluble	Solid	DI Leach	

Analysis Batch: 13927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1615-1	C-746	Soluble	Solid	300.0	13080
890-1615-2	C-896	Soluble	Solid	300.0	13080
MB 880-13080/1-A	Method Blank	Soluble	Solid	300.0	13080
LCS 880-13080/2-A	Lab Control Sample	Soluble	Solid	300.0	13080
LCSD 880-13080/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	13080
890-1615-2 MS	C-896	Soluble	Solid	300.0	13080
890-1615-2 MSD	C-896	Soluble	Solid	300.0	13080

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Client Sample ID: C-746

Lab Sample ID: 890-1615-1

Date Collected: 11/22/21 12:00

Matrix: Solid

Date Received: 11/22/21 14:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	13087	11/23/21 14:25	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13097	11/24/21 06:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13223	11/24/21 12:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13220	11/25/21 03:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	13080	11/23/21 13:26	SC	XEN MID
Soluble	Analysis	300.0		1			13927	12/05/21 17:33	CH	XEN MID

Client Sample ID: C-896

Lab Sample ID: 890-1615-2

Date Collected: 11/22/21 12:45

Matrix: Solid

Date Received: 11/22/21 14:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	13087	11/23/21 14:25	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13097	11/24/21 06:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13223	11/24/21 12:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13220	11/25/21 03:29	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	13080	11/23/21 13:26	SC	XEN MID
Soluble	Analysis	300.0		1			13927	12/05/21 17:55	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1615-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1615-1	C-746	Solid	11/22/21 12:00	11/22/21 14:08
890-1615-2	C-896	Solid	11/22/21 12:45	11/22/21 14:08

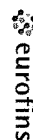
- 1
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- 3
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- 7
- 8
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- 12
- 13
- 14

12/6/2021

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment testing
America

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1615-1

SDG Number: 21-0105-02

Login Number: 1615

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1615-1

SDG Number: 21-0105-02

Login Number: 1615

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 11/23/21 12:51 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1623-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

Authorized for release by:
12/6/2021 4:52:14 PM
Brianna Teel, Project Manager
(432)704-5440
brianna.teel@eurofinset.com
Designee for
Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1623-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Job ID: 890-1623-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1623-1****Comments**

No additional comments.

Receipt

The samples were received on 11/23/2021 2:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 23.8° C.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The continuing calibration verification (CCV) associated with batch 880-13326 recovered above the upper control limit for Diesel Range Organics (Over C10-C28) and Gasoline Range Organics (GRO)-C6-C10 The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The laboratory control sample (LCS) associated with preparation batch 880-13337 and analytical batch 880-13926 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Client Sample ID: C-521

Lab Sample ID: 890-1623-1

Date Collected: 11/23/21 07:35

Matrix: Solid

Date Received: 11/23/21 14:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200	mg/Kg		12/01/21 08:30	12/01/21 23:58	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		12/01/21 08:30	12/01/21 23:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 23:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/01/21 08:30	12/01/21 23:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 23:58	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/01/21 08:30	12/01/21 23:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/01/21 08:30	12/01/21 23:58	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/01/21 08:30	12/01/21 23:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/30/21 14:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *	49.8	mg/Kg		11/29/21 09:24	11/29/21 16:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8	mg/Kg		11/29/21 09:24	11/29/21 16:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/29/21 09:24	11/29/21 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	11/29/21 09:24	11/29/21 16:58	1
o-Terphenyl (Surr)	101		70 - 130	11/29/21 09:24	11/29/21 16:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.4	++	4.95	mg/Kg			12/05/21 03:52	1

Client Sample ID: C-520

Lab Sample ID: 890-1623-2

Date Collected: 11/23/21 07:45

Matrix: Solid

Date Received: 11/23/21 14:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 00:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 00:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 00:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/01/21 08:30	12/02/21 00:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 00:19	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/01/21 08:30	12/02/21 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/01/21 08:30	12/02/21 00:19	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/01/21 08:30	12/02/21 00:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Client Sample ID: C-520

Lab Sample ID: 890-1623-2

Date Collected: 11/23/21 07:45

Matrix: Solid

Date Received: 11/23/21 14:20

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/30/21 14:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		11/29/21 09:24	11/29/21 17:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0	mg/Kg		11/29/21 09:24	11/29/21 17:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/29/21 09:24	11/29/21 17:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			11/29/21 09:24	11/29/21 17:18	1
o-Terphenyl (Surr)	116		70 - 130			11/29/21 09:24	11/29/21 17:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219	+	5.01	mg/Kg			12/05/21 04:03	1

Client Sample ID: C-519

Lab Sample ID: 890-1623-3

Date Collected: 11/23/21 08:10

Matrix: Solid

Date Received: 11/23/21 14:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 00:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 00:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 00:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/01/21 08:30	12/02/21 00:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 00:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/21 08:30	12/02/21 00:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			12/01/21 08:30	12/02/21 00:39	1
1,4-Difluorobenzene (Surr)	108		70 - 130			12/01/21 08:30	12/02/21 00:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/30/21 14:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		11/29/21 09:24	11/29/21 17:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9	mg/Kg		11/29/21 09:24	11/29/21 17:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Client Sample ID: C-519

Lab Sample ID: 890-1623-3

Date Collected: 11/23/21 08:10

Matrix: Solid

Date Received: 11/23/21 14:20

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/29/21 09:24	11/29/21 17:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			11/29/21 09:24	11/29/21 17:38	1
o-Terphenyl (Surr)	103		70 - 130			11/29/21 09:24	11/29/21 17:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.3	++	4.97	mg/Kg			12/05/21 04:14	1

Client Sample ID: C-514

Lab Sample ID: 890-1623-4

Date Collected: 11/23/21 08:30

Matrix: Solid

Date Received: 11/23/21 14:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 01:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 01:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 01:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/01/21 08:30	12/02/21 01:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 01:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/21 08:30	12/02/21 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			12/01/21 08:30	12/02/21 01:00	1
1,4-Difluorobenzene (Surr)	105		70 - 130			12/01/21 08:30	12/02/21 01:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/30/21 14:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		11/29/21 09:24	11/29/21 17:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0	mg/Kg		11/29/21 09:24	11/29/21 17:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/29/21 09:24	11/29/21 17:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			11/29/21 09:24	11/29/21 17:59	1
o-Terphenyl (Surr)	98		70 - 130			11/29/21 09:24	11/29/21 17:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.5	++	5.00	mg/Kg			12/05/21 04:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Client Sample ID: C-786

Lab Sample ID: 890-1623-5

Date Collected: 11/23/21 08:35

Matrix: Solid

Date Received: 11/23/21 14:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 01:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 01:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 01:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/02/21 01:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 01:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/02/21 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/01/21 08:30	12/02/21 01:20	1
1,4-Difluorobenzene (Surr)	90		70 - 130	12/01/21 08:30	12/02/21 01:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/30/21 14:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		11/29/21 09:24	11/29/21 18:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9	mg/Kg		11/29/21 09:24	11/29/21 18:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/29/21 09:24	11/29/21 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	11/29/21 09:24	11/29/21 18:39	1
o-Terphenyl (Surr)	105		70 - 130	11/29/21 09:24	11/29/21 18:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350	++	5.00	mg/Kg			12/05/21 04:37	1

Client Sample ID: C-513

Lab Sample ID: 890-1623-6

Date Collected: 11/23/21 10:45

Matrix: Solid

Date Received: 11/23/21 14:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 01:41	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 01:41	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 01:41	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/01/21 08:30	12/02/21 01:41	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 01:41	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/01/21 08:30	12/02/21 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	12/01/21 08:30	12/02/21 01:41	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/01/21 08:30	12/02/21 01:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Client Sample ID: C-513

Lab Sample ID: 890-1623-6

Date Collected: 11/23/21 10:45

Matrix: Solid

Date Received: 11/23/21 14:20

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/30/21 14:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		11/29/21 09:24	11/29/21 19:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0	mg/Kg		11/29/21 09:24	11/29/21 19:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/29/21 09:24	11/29/21 19:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			11/29/21 09:24	11/29/21 19:00	1
o-Terphenyl (Surr)	95		70 - 130			11/29/21 09:24	11/29/21 19:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	307	*+	5.03	mg/Kg			12/05/21 04:49	1

Client Sample ID: C-496

Lab Sample ID: 890-1623-7

Date Collected: 11/23/21 12:06

Matrix: Solid

Date Received: 11/23/21 14:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 02:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 02:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 02:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/01/21 08:30	12/02/21 02:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 02:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/01/21 08:30	12/02/21 02:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130			12/01/21 08:30	12/02/21 02:01	1
1,4-Difluorobenzene (Surr)	101		70 - 130			12/01/21 08:30	12/02/21 02:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/30/21 14:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		11/29/21 09:24	11/29/21 19:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9	mg/Kg		11/29/21 09:24	11/29/21 19:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Client Sample ID: C-496

Lab Sample ID: 890-1623-7

Date Collected: 11/23/21 12:06

Matrix: Solid

Date Received: 11/23/21 14:20

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/29/21 09:24	11/29/21 19:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			11/29/21 09:24	11/29/21 19:20	1
o-Terphenyl (Surr)	101		70 - 130			11/29/21 09:24	11/29/21 19:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	666	++	5.04	mg/Kg			12/05/21 05:00	1

Client Sample ID: C-515

Lab Sample ID: 890-1623-8

Date Collected: 11/23/21 12:30

Matrix: Solid

Date Received: 11/23/21 14:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:30	12/02/21 02:21	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:30	12/02/21 02:21	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:30	12/02/21 02:21	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/01/21 08:30	12/02/21 02:21	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:30	12/02/21 02:21	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/01/21 08:30	12/02/21 02:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			12/01/21 08:30	12/02/21 02:21	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/01/21 08:30	12/02/21 02:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/30/21 14:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		11/29/21 09:24	11/29/21 19:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0	mg/Kg		11/29/21 09:24	11/29/21 19:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/29/21 09:24	11/29/21 19:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			11/29/21 09:24	11/29/21 19:40	1
o-Terphenyl (Surr)	104		70 - 130			11/29/21 09:24	11/29/21 19:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		4.99	mg/Kg			12/05/21 20:40	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Client Sample ID: C-516

Lab Sample ID: 890-1623-9

Date Collected: 11/23/21 13:30

Matrix: Solid

Date Received: 11/23/21 14:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 02:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 02:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 02:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/01/21 08:30	12/02/21 02:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 02:42	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/01/21 08:30	12/02/21 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/01/21 08:30	12/02/21 02:42	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/01/21 08:30	12/02/21 02:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/06/21 15:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/30/21 14:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *	49.8	mg/Kg		11/29/21 09:24	11/29/21 20:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8	mg/Kg		11/29/21 09:24	11/29/21 20:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/29/21 09:24	11/29/21 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	11/29/21 09:24	11/29/21 20:00	1
o-Terphenyl (Surr)	106		70 - 130	11/29/21 09:24	11/29/21 20:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	326		5.00	mg/Kg			12/05/21 20:48	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
890-1623-1	C-521	126	97				
890-1623-1 MS	C-521	132 S1+	91				
890-1623-1 MSD	C-521	123	103				
890-1623-2	C-520	123	96				
890-1623-3	C-519	126	108				
890-1623-4	C-514	115	105				
890-1623-5	C-786	127	90				
890-1623-6	C-513	125	95				
890-1623-7	C-496	141 S1+	101				
890-1623-8	C-515	120	100				
890-1623-9	C-516	121	103				
LCS 880-13373/1-A	Lab Control Sample	113	100				
LCSD 880-13373/2-A	Lab Control Sample Dup	110	95				
MB 880-13361/5-A	Method Blank	121	103				
MB 880-13373/5-A	Method Blank	120	94				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	1CO1	OTPH1						
		(70-130)	(70-130)						
880-8670-A-1-C MS	Matrix Spike	97	91						
880-8670-A-1-D MSD	Matrix Spike Duplicate	107	101						
890-1623-1	C-521	88	101						
890-1623-2	C-520	104	116						
890-1623-3	C-519	93	103						
890-1623-4	C-514	90	98						
890-1623-5	C-786	94	105						
890-1623-6	C-513	89	95						
890-1623-7	C-496	91	101						
890-1623-8	C-515	93	104						
890-1623-9	C-516	92	106						
LCS 880-13307/2-A	Lab Control Sample	109	112						
LCSD 880-13307/3-A	Lab Control Sample Dup	110	110						
MB 880-13307/1-A	Method Blank	112	130						
Surrogate Legend									
1CO = 1-Chlorooctane (Surr)									
OTPH = o-Terphenyl (Surr)									

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13361/5-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13361

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/01/21 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/01/21 08:30	12/01/21 11:55	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/01/21 08:30	12/01/21 11:55	1

Lab Sample ID: MB 880-13373/5-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13373

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 23:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 23:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 23:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/01/21 23:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 23:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/01/21 23:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/01/21 08:30	12/01/21 23:30	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/01/21 08:30	12/01/21 23:30	1

Lab Sample ID: LCS 880-13373/1-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09263		mg/Kg		93	70 - 130
Toluene	0.100	0.09380		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09268		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1828		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09349		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-13373/2-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13373

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09572		mg/Kg		96	70 - 130	3	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-13373/2-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13373

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.1034		mg/Kg		103	70 - 130	10	35
Ethylbenzene	0.100	0.09752		mg/Kg		98	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1905		mg/Kg		95	70 - 130	4	35
o-Xylene	0.100	0.09364		mg/Kg		94	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-1623-1 MS

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: C-521

Prep Type: Total/NA

Prep Batch: 13373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F2 F1	0.100	0.05871	F1	mg/Kg		58	70 - 130
Toluene	<0.00200	U F1	0.100	0.06451	F1	mg/Kg		64	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.07056		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1413		mg/Kg		70	70 - 130
o-Xylene	<0.00200	U	0.100	0.07061		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-1623-1 MSD

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: C-521

Prep Type: Total/NA

Prep Batch: 13373

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0990	0.08560	F2	mg/Kg		86	70 - 130	37	35
Toluene	<0.00200	U F1	0.0990	0.08775		mg/Kg		89	70 - 130	31	35
Ethylbenzene	<0.00200	U	0.0990	0.08066		mg/Kg		81	70 - 130	13	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1580		mg/Kg		80	70 - 130	11	35
o-Xylene	<0.00200	U	0.0990	0.07817		mg/Kg		79	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-13307/1-A

Matrix: Solid

Analysis Batch: 13326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13307

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/29/21 09:24	11/29/21 11:37	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-13307/1-A

Matrix: Solid

Analysis Batch: 13326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13307

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/29/21 09:24	11/29/21 11:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/29/21 09:24	11/29/21 11:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			11/29/21 09:24	11/29/21 11:37	1
o-Terphenyl (Surr)	130		70 - 130			11/29/21 09:24	11/29/21 11:37	1

Lab Sample ID: LCS 880-13307/2-A

Matrix: Solid

Analysis Batch: 13326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13307

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	571.0	*-	mg/Kg		57	70 - 130
Diesel Range Organics (Over C10-C28)	1000	512.3	*-	mg/Kg		51	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	109		70 - 130				
o-Terphenyl (Surr)	112		70 - 130				

Lab Sample ID: LCSD 880-13307/3-A

Matrix: Solid

Analysis Batch: 13326

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13307

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	585.9	*-	mg/Kg		59	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	512.1	*-	mg/Kg		51	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	110		70 - 130						
o-Terphenyl (Surr)	110		70 - 130						

Lab Sample ID: 880-8670-A-1-C MS

Matrix: Solid

Analysis Batch: 13326

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13307

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- F1	997	505.9	F1	mg/Kg		51	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *- F1	997	364.4	F1	mg/Kg		35	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	97		70 - 130						
o-Terphenyl (Surr)	91		70 - 130						

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-8670-A-1-D MSD

Matrix: Solid

Analysis Batch: 13326

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13307

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- F1	999	614.7	F1	mg/Kg		62	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	<49.9	U *- F1	999	403.5	F1	mg/Kg		38	70 - 130	10	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	107		70 - 130								
o-Terphenyl (Surr)	101		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-13337/1-A

Matrix: Solid

Analysis Batch: 13926

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/04/21 23:18	1

Lab Sample ID: LCS 880-13337/2-A

Matrix: Solid

Analysis Batch: 13926

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	311.5	*+	mg/Kg		125	90 - 110

Lab Sample ID: LCSD 880-13337/3-A

Matrix: Solid

Analysis Batch: 13926

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	273.7		mg/Kg		109	90 - 110	13	20

Lab Sample ID: 880-8656-A-7-D MS

Matrix: Solid

Analysis Batch: 13926

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	47.9	*+	248	317.6		mg/Kg		109	90 - 110

Lab Sample ID: 880-8656-A-7-E MSD

Matrix: Solid

Analysis Batch: 13926

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	47.9	*+	248	311.6		mg/Kg		106	90 - 110	2	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-13338/1-A

Matrix: Solid

Analysis Batch: 14052

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/05/21 19:41	1

Lab Sample ID: LCS 880-13338/2-A

Matrix: Solid

Analysis Batch: 14052

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	267.5		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-13338/3-A

Matrix: Solid

Analysis Batch: 14052

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	268.0		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-1621-A-125-E MS

Matrix: Solid

Analysis Batch: 14052

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	461		249	727.2		mg/Kg		107	90 - 110

Lab Sample ID: 890-1621-A-125-F MSD

Matrix: Solid

Analysis Batch: 14052

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	461		249	725.9		mg/Kg		106	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

GC VOA

Prep Batch: 13361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-13361/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 13373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1623-1	C-521	Total/NA	Solid	5035	
890-1623-2	C-520	Total/NA	Solid	5035	
890-1623-3	C-519	Total/NA	Solid	5035	
890-1623-4	C-514	Total/NA	Solid	5035	
890-1623-5	C-786	Total/NA	Solid	5035	
890-1623-6	C-513	Total/NA	Solid	5035	
890-1623-7	C-496	Total/NA	Solid	5035	
890-1623-8	C-515	Total/NA	Solid	5035	
890-1623-9	C-516	Total/NA	Solid	5035	
MB 880-13373/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13373/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13373/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1623-1 MS	C-521	Total/NA	Solid	5035	
890-1623-1 MSD	C-521	Total/NA	Solid	5035	

Analysis Batch: 13591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1623-1	C-521	Total/NA	Solid	8021B	13373
890-1623-2	C-520	Total/NA	Solid	8021B	13373
890-1623-3	C-519	Total/NA	Solid	8021B	13373
890-1623-4	C-514	Total/NA	Solid	8021B	13373
890-1623-5	C-786	Total/NA	Solid	8021B	13373
890-1623-6	C-513	Total/NA	Solid	8021B	13373
890-1623-7	C-496	Total/NA	Solid	8021B	13373
890-1623-8	C-515	Total/NA	Solid	8021B	13373
890-1623-9	C-516	Total/NA	Solid	8021B	13373
MB 880-13361/5-A	Method Blank	Total/NA	Solid	8021B	13361
MB 880-13373/5-A	Method Blank	Total/NA	Solid	8021B	13373
LCS 880-13373/1-A	Lab Control Sample	Total/NA	Solid	8021B	13373
LCSD 880-13373/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13373
890-1623-1 MS	C-521	Total/NA	Solid	8021B	13373
890-1623-1 MSD	C-521	Total/NA	Solid	8021B	13373

Analysis Batch: 13868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1623-1	C-521	Total/NA	Solid	Total BTEX	
890-1623-2	C-520	Total/NA	Solid	Total BTEX	
890-1623-3	C-519	Total/NA	Solid	Total BTEX	
890-1623-4	C-514	Total/NA	Solid	Total BTEX	
890-1623-5	C-786	Total/NA	Solid	Total BTEX	
890-1623-6	C-513	Total/NA	Solid	Total BTEX	
890-1623-7	C-496	Total/NA	Solid	Total BTEX	
890-1623-8	C-515	Total/NA	Solid	Total BTEX	

Analysis Batch: 14097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1623-9	C-516	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 13307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1623-1	C-521	Total/NA	Solid	8015NM Prep	
890-1623-2	C-520	Total/NA	Solid	8015NM Prep	
890-1623-3	C-519	Total/NA	Solid	8015NM Prep	
890-1623-4	C-514	Total/NA	Solid	8015NM Prep	
890-1623-5	C-786	Total/NA	Solid	8015NM Prep	
890-1623-6	C-513	Total/NA	Solid	8015NM Prep	
890-1623-7	C-496	Total/NA	Solid	8015NM Prep	
890-1623-8	C-515	Total/NA	Solid	8015NM Prep	
890-1623-9	C-516	Total/NA	Solid	8015NM Prep	
MB 880-13307/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13307/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13307/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-8670-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-8670-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1623-1	C-521	Total/NA	Solid	8015B NM	13307
890-1623-2	C-520	Total/NA	Solid	8015B NM	13307
890-1623-3	C-519	Total/NA	Solid	8015B NM	13307
890-1623-4	C-514	Total/NA	Solid	8015B NM	13307
890-1623-5	C-786	Total/NA	Solid	8015B NM	13307
890-1623-6	C-513	Total/NA	Solid	8015B NM	13307
890-1623-7	C-496	Total/NA	Solid	8015B NM	13307
890-1623-8	C-515	Total/NA	Solid	8015B NM	13307
890-1623-9	C-516	Total/NA	Solid	8015B NM	13307
MB 880-13307/1-A	Method Blank	Total/NA	Solid	8015B NM	13307
LCS 880-13307/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13307
LCSD 880-13307/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13307
880-8670-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	13307
880-8670-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13307

Analysis Batch: 13501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1623-1	C-521	Total/NA	Solid	8015 NM	
890-1623-2	C-520	Total/NA	Solid	8015 NM	
890-1623-3	C-519	Total/NA	Solid	8015 NM	
890-1623-4	C-514	Total/NA	Solid	8015 NM	
890-1623-5	C-786	Total/NA	Solid	8015 NM	
890-1623-6	C-513	Total/NA	Solid	8015 NM	
890-1623-7	C-496	Total/NA	Solid	8015 NM	
890-1623-8	C-515	Total/NA	Solid	8015 NM	
890-1623-9	C-516	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 13337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1623-1	C-521	Soluble	Solid	DI Leach	
890-1623-2	C-520	Soluble	Solid	DI Leach	
890-1623-3	C-519	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 13337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1623-4	C-514	Soluble	Solid	DI Leach	
890-1623-5	C-786	Soluble	Solid	DI Leach	
890-1623-6	C-513	Soluble	Solid	DI Leach	
890-1623-7	C-496	Soluble	Solid	DI Leach	
MB 880-13337/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-13337/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-13337/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8656-A-7-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8656-A-7-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 13338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1623-8	C-515	Soluble	Solid	DI Leach	
890-1623-9	C-516	Soluble	Solid	DI Leach	
MB 880-13338/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-13338/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-13338/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1621-A-125-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1621-A-125-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 13926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1623-1	C-521	Soluble	Solid	300.0	13337
890-1623-2	C-520	Soluble	Solid	300.0	13337
890-1623-3	C-519	Soluble	Solid	300.0	13337
890-1623-4	C-514	Soluble	Solid	300.0	13337
890-1623-5	C-786	Soluble	Solid	300.0	13337
890-1623-6	C-513	Soluble	Solid	300.0	13337
890-1623-7	C-496	Soluble	Solid	300.0	13337
MB 880-13337/1-A	Method Blank	Soluble	Solid	300.0	13337
LCS 880-13337/2-A	Lab Control Sample	Soluble	Solid	300.0	13337
LCSD 880-13337/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	13337
880-8656-A-7-D MS	Matrix Spike	Soluble	Solid	300.0	13337
880-8656-A-7-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	13337

Analysis Batch: 14052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1623-8	C-515	Soluble	Solid	300.0	13338
890-1623-9	C-516	Soluble	Solid	300.0	13338
MB 880-13338/1-A	Method Blank	Soluble	Solid	300.0	13338
LCS 880-13338/2-A	Lab Control Sample	Soluble	Solid	300.0	13338
LCSD 880-13338/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	13338
890-1621-A-125-E MS	Matrix Spike	Soluble	Solid	300.0	13338
890-1621-A-125-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	13338

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Client Sample ID: C-521

Lab Sample ID: 890-1623-1

Date Collected: 11/23/21 07:35

Matrix: Solid

Date Received: 11/23/21 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/01/21 23:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13501	11/30/21 14:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13307	11/29/21 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13326	11/29/21 16:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	13337	11/29/21 11:05	CA	XEN MID
Soluble	Analysis	300.0		1			13926	12/05/21 03:52	CH	XEN MID

Client Sample ID: C-520

Lab Sample ID: 890-1623-2

Date Collected: 11/23/21 07:45

Matrix: Solid

Date Received: 11/23/21 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 00:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13501	11/30/21 14:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13307	11/29/21 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13326	11/29/21 17:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	13337	11/29/21 11:05	CA	XEN MID
Soluble	Analysis	300.0		1			13926	12/05/21 04:03	CH	XEN MID

Client Sample ID: C-519

Lab Sample ID: 890-1623-3

Date Collected: 11/23/21 08:10

Matrix: Solid

Date Received: 11/23/21 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 00:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13501	11/30/21 14:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13307	11/29/21 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13326	11/29/21 17:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	13337	11/29/21 11:05	CA	XEN MID
Soluble	Analysis	300.0		1			13926	12/05/21 04:14	CH	XEN MID

Client Sample ID: C-514

Lab Sample ID: 890-1623-4

Date Collected: 11/23/21 08:30

Matrix: Solid

Date Received: 11/23/21 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 01:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:31	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Client Sample ID: C-514**Lab Sample ID: 890-1623-4****Date Collected: 11/23/21 08:30****Matrix: Solid****Date Received: 11/23/21 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			13501	11/30/21 14:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13307	11/29/21 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13326	11/29/21 17:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	13337	11/29/21 11:05	CA	XEN MID
Soluble	Analysis	300.0		1			13926	12/05/21 04:26	CH	XEN MID

Client Sample ID: C-786**Lab Sample ID: 890-1623-5****Date Collected: 11/23/21 08:35****Matrix: Solid****Date Received: 11/23/21 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 01:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13501	11/30/21 14:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13307	11/29/21 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13326	11/29/21 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	13337	11/29/21 11:05	CA	XEN MID
Soluble	Analysis	300.0		1			13926	12/05/21 04:37	CH	XEN MID

Client Sample ID: C-513**Lab Sample ID: 890-1623-6****Date Collected: 11/23/21 10:45****Matrix: Solid****Date Received: 11/23/21 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 01:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13501	11/30/21 14:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13307	11/29/21 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13326	11/29/21 19:00	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	13337	11/29/21 11:05	CA	XEN MID
Soluble	Analysis	300.0		1			13926	12/05/21 04:49	CH	XEN MID

Client Sample ID: C-496**Lab Sample ID: 890-1623-7****Date Collected: 11/23/21 12:06****Matrix: Solid****Date Received: 11/23/21 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 02:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13501	11/30/21 14:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13307	11/29/21 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13326	11/29/21 19:20	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Client Sample ID: C-496**Lab Sample ID: 890-1623-7****Date Collected: 11/23/21 12:06****Matrix: Solid****Date Received: 11/23/21 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	13337	11/29/21 11:05	CA	XEN MID
Soluble	Analysis	300.0		1			13926	12/05/21 05:00	CH	XEN MID

Client Sample ID: C-515**Lab Sample ID: 890-1623-8****Date Collected: 11/23/21 12:30****Matrix: Solid****Date Received: 11/23/21 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 02:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13501	11/30/21 14:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13307	11/29/21 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13326	11/29/21 19:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	13338	11/29/21 11:07	CA	XEN MID
Soluble	Analysis	300.0		1			14052	12/05/21 20:40	CH	XEN MID

Client Sample ID: C-516**Lab Sample ID: 890-1623-9****Date Collected: 11/23/21 13:30****Matrix: Solid****Date Received: 11/23/21 14:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 02:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14097	12/06/21 15:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13501	11/30/21 14:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13307	11/29/21 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13326	11/29/21 20:00	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	13338	11/29/21 11:07	CA	XEN MID
Soluble	Analysis	300.0		1			14052	12/05/21 20:48	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
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- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1623-1
SDG: 21-0105-02

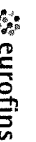
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1623-1	C-521	Solid	11/23/21 07:35	11/23/21 14:20
890-1623-2	C-520	Solid	11/23/21 07:45	11/23/21 14:20
890-1623-3	C-519	Solid	11/23/21 08:10	11/23/21 14:20
890-1623-4	C-514	Solid	11/23/21 08:30	11/23/21 14:20
890-1623-5	C-786	Solid	11/23/21 08:35	11/23/21 14:20
890-1623-6	C-513	Solid	11/23/21 10:45	11/23/21 14:20
890-1623-7	C-496	Solid	11/23/21 12:06	11/23/21 14:20
890-1623-8	C-515	Solid	11/23/21 12:30	11/23/21 14:20
890-1623-9	C-516	Solid	11/23/21 13:30	11/23/21 14:20

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No				
Client Contact	Phone	TAT Requested (days):	Taylor, Holly		890-522-1				
Shipping/Receiving			E-Mail	State of Origin:	Page 1 of 1				
Company			holly.taylor@eurofins.com	New Mexico					
Address		Due Date Requested	Accreditations Required (See note):		Job #				
1211 W Florida Ave		12/1/2021	NELAP - Louisiana NELAP - Texas		890-1623-1				
City			Analysis Requested						
Midland									
State Zip									
TX, 79701									
Phone		PO #							
432-704-5440(Tel)									
Email		WO #							
Project Name		Project #							
Mack PU		89000025							
Site		SSOW#							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, BI=Tissue, A=Ali)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
C-521 (890-1623-1)		11/23/21	07 35		Solid	X	X	X	
C-520 (890-1623-2)		11/23/21	07 45		Solid	X	X	X	
C-519 (890-1623-3)		11/23/21	08 10		Solid	X	X	X	
C-514 (890-1623-4)		11/23/21	08 30		Solid	X	X	X	
C-786 (890-1623-5)		11/23/21	08 35		Solid	X	X	X	
C-513 (890-1623-6)		11/23/21	10 45		Solid	X	X	X	
C-496 (890-1623-7)		11/23/21	12 06		Solid	X	X	X	
C-515 (890-1623-8)		11/23/21	12 30		Solid	X	X	X	
C-516 (890-1623-9)		11/23/21	13 30		Solid	X	X	X	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testing, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested I II III, IV Other (Specify) Primary Deliverable Rank 2									
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____									
Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____									
Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____									
Custody Seals Intact. Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks: _____									
☐ Yes ☐ No									

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1623-1

SDG Number: 21-0105-02

Login Number: 1623

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1623-1

SDG Number: 21-0105-02

Login Number: 1623

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 11/24/21 12:15 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8/3.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-8690-1
Laboratory Sample Delivery Group: 21-0105-05
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/10/2021 1:28:09 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-8690-1
SDG: 21-0105-05

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Job ID: 880-8690-1

Laboratory: Eurofins Xenco, Midland

Narrative

**Job Narrative
880-8690-1**

Receipt

The samples were received on 11/29/2021 9:44 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.1°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-13643 and analytical batch 880-14367 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Client Sample ID: C-495

Lab Sample ID: 880-8690-1

Date Collected: 11/24/21 07:30

Matrix: Solid

Date Received: 11/29/21 09:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/30/21 08:22	11/30/21 12:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/30/21 08:22	11/30/21 12:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/30/21 08:22	11/30/21 12:42	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		11/30/21 08:22	11/30/21 12:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/30/21 08:22	11/30/21 12:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/30/21 08:22	11/30/21 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	11/30/21 08:22	11/30/21 12:42	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/30/21 08:22	11/30/21 12:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/30/21 15:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/02/21 11:27	12/03/21 13:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/02/21 11:27	12/03/21 13:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/02/21 11:27	12/03/21 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130	12/02/21 11:27	12/03/21 13:22	1
o-Terphenyl (Surr)	101		70 - 130	12/02/21 11:27	12/03/21 13:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171	F1	4.98	mg/Kg			12/09/21 21:34	1

Client Sample ID: C-482

Lab Sample ID: 880-8690-2

Date Collected: 11/24/21 07:45

Matrix: Solid

Date Received: 11/29/21 09:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/01/21 17:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/01/21 17:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/01/21 17:18	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/01/21 08:30	12/01/21 17:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/01/21 17:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/21 08:30	12/01/21 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/01/21 08:30	12/01/21 17:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/01/21 08:30	12/01/21 17:18	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Client Sample ID: C-482

Lab Sample ID: 880-8690-2

Date Collected: 11/24/21 07:45

Matrix: Solid

Date Received: 11/29/21 09:44

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 13:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 13:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 13:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			12/02/21 11:27	12/03/21 13:42	1
o-Terphenyl (Surr)	107		70 - 130			12/02/21 11:27	12/03/21 13:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	346		5.04	mg/Kg			12/09/21 21:54	1

Client Sample ID: C-483

Lab Sample ID: 880-8690-3

Date Collected: 11/24/21 08:00

Matrix: Solid

Date Received: 11/29/21 09:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 17:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 17:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 17:38	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/01/21 17:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 17:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/01/21 17:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			12/01/21 08:30	12/01/21 17:38	1
1,4-Difluorobenzene (Surr)	96		70 - 130			12/01/21 08:30	12/01/21 17:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 14:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 14:03	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Client Sample ID: C-483

Lab Sample ID: 880-8690-3

Date Collected: 11/24/21 08:00

Matrix: Solid

Date Received: 11/29/21 09:44

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			12/02/21 11:27	12/03/21 14:03	1
o-Terphenyl (Surr)	96		70 - 130			12/02/21 11:27	12/03/21 14:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		4.99	mg/Kg			12/09/21 22:01	1

Client Sample ID: C-484

Lab Sample ID: 880-8690-4

Date Collected: 11/24/21 08:55

Matrix: Solid

Date Received: 11/29/21 09:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/01/21 17:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/01/21 17:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/01/21 17:58	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/01/21 08:30	12/01/21 17:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/01/21 17:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/21 08:30	12/01/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			12/01/21 08:30	12/01/21 17:58	1
1,4-Difluorobenzene (Surr)	99		70 - 130			12/01/21 08:30	12/01/21 17:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 14:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 14:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			12/02/21 11:27	12/03/21 14:24	1
o-Terphenyl (Surr)	103		70 - 130			12/02/21 11:27	12/03/21 14:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202		5.00	mg/Kg			12/09/21 22:07	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Client Sample ID: C-494

Lab Sample ID: 880-8690-5

Date Collected: 11/24/21 09:15

Matrix: Solid

Date Received: 11/29/21 09:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/01/21 18:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/01/21 18:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/01/21 18:19	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		12/01/21 08:30	12/01/21 18:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/01/21 18:19	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/01/21 08:30	12/01/21 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	12/01/21 08:30	12/01/21 18:19	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/01/21 08:30	12/01/21 18:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 15:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 15:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	12/02/21 11:27	12/03/21 15:06	1
o-Terphenyl (Surr)	102		70 - 130	12/02/21 11:27	12/03/21 15:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		24.8	mg/Kg			12/09/21 22:14	5

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	BFB1	DFBZ1						
		(70-130)	(70-130)						
880-8623-A-32-F MS	Matrix Spike	120	101						
880-8623-A-32-G MSD	Matrix Spike Duplicate	118	112						
880-8690-1	C-495	103	101						
880-8690-1 MS	C-495	105	98						
880-8690-1 MSD	C-495	107	100						
880-8690-2	C-482	111	102						
880-8690-3	C-483	84	96						
880-8690-4	C-484	112	99						
880-8690-5	C-494	129	103						
LCS 880-13361/1-A	Lab Control Sample	111	95						
LCS 880-13416/1-A	Lab Control Sample	106	103						
LCSD 880-13361/2-A	Lab Control Sample Dup	52 S1-	98						
LCSD 880-13416/2-A	Lab Control Sample Dup	110	102						
MB 880-13361/5-A	Method Blank	121	103						
MB 880-13416/5-A	Method Blank	99	104						
Surrogate Legend									
BFB = 4-Bromofluorobenzene (Surr)									
DFBZ = 1,4-Difluorobenzene (Surr)									

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	1CO1	OTPH1						
		(70-130)	(70-130)						
880-8690-1	C-495	90	101						
880-8690-2	C-482	94	107						
880-8690-3	C-483	86	96						
880-8690-4	C-484	91	103						
880-8690-5	C-494	89	102						
890-1635-A-1-O MS	Matrix Spike	96	98						
890-1635-A-1-P MSD	Matrix Spike Duplicate	96	96						
LCS 880-13730/2-A	Lab Control Sample	76	77						
LCSD 880-13730/3-A	Lab Control Sample Dup	94	97						
MB 880-13730/1-A	Method Blank	90	105						
Surrogate Legend									
1CO = 1-Chlorooctane (Surr)									
OTPH = o-Terphenyl (Surr)									

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13361/5-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13361

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/01/21 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/01/21 08:30	12/01/21 11:55	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/01/21 08:30	12/01/21 11:55	1

Lab Sample ID: LCS 880-13361/1-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09417		mg/Kg		94	70 - 130
Toluene	0.100	0.09309		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09817		mg/Kg		98	70 - 130
m,p-Xylenes	0.200	0.1910		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09240		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-13361/2-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13361

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09994		mg/Kg		100	70 - 130	6	35
Toluene	0.100	0.1035		mg/Kg		104	70 - 130	11	35
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130	5	35
m,p-Xylenes	0.200	0.2024		mg/Kg		101	70 - 130	6	35
o-Xylene	0.100	0.09805		mg/Kg		98	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	52	S1-	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-8623-A-32-F MS

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13361

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.100	0.1004		mg/Kg		99	70 - 130
Toluene	<0.00199	U	0.100	0.1037		mg/Kg		103	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-8623-A-32-F MS

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13361

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U	0.100	0.1077		mg/Kg		107	70 - 130
m,p-Xylenes	<0.00398	U	0.201	0.2076		mg/Kg		103	70 - 130
o-Xylene	<0.00199	U	0.100	0.09906		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-8623-A-32-G MSD

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13361

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09805		mg/Kg		97	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.1013		mg/Kg		101	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.1014		mg/Kg		101	70 - 130	6	35
m,p-Xylenes	<0.00398	U	0.200	0.1983		mg/Kg		99	70 - 130	5	35
o-Xylene	<0.00199	U	0.100	0.09582		mg/Kg		95	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: MB 880-13416/5-A

Matrix: Solid

Analysis Batch: 13425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13416

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/30/21 08:22	11/30/21 12:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/30/21 08:22	11/30/21 12:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/30/21 08:22	11/30/21 12:21	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/30/21 08:22	11/30/21 12:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/30/21 08:22	11/30/21 12:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/30/21 08:22	11/30/21 12:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	11/30/21 08:22	11/30/21 12:21	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/30/21 08:22	11/30/21 12:21	1

Lab Sample ID: LCS 880-13416/1-A

Matrix: Solid

Analysis Batch: 13425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13416

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08972		mg/Kg		90	70 - 130
Toluene	0.100	0.08539		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08317		mg/Kg		83	70 - 130
m,p-Xylenes	0.200	0.1777		mg/Kg		89	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-13416/1-A

Matrix: Solid

Analysis Batch: 13425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13416

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.08655		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-13416/2-A

Matrix: Solid

Analysis Batch: 13425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13416

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09505		mg/Kg		95	70 - 130	6	35
Toluene	0.100	0.09023		mg/Kg		90	70 - 130	6	35
Ethylbenzene	0.100	0.08929		mg/Kg		89	70 - 130	7	35
m,p-Xylenes	0.200	0.1922		mg/Kg		96	70 - 130	8	35
o-Xylene	0.100	0.09428		mg/Kg		94	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-8690-1 MS

Matrix: Solid

Analysis Batch: 13425

Client Sample ID: C-495

Prep Type: Total/NA

Prep Batch: 13416

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.100	0.09233		mg/Kg		92	70 - 130
Toluene	<0.00200	U	0.100	0.08882		mg/Kg		88	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08583		mg/Kg		85	70 - 130
m,p-Xylenes	<0.00399	U	0.201	0.1854		mg/Kg		92	70 - 130
o-Xylene	<0.00200	U	0.100	0.09133		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-8690-1 MSD

Matrix: Solid

Analysis Batch: 13425

Client Sample ID: C-495

Prep Type: Total/NA

Prep Batch: 13416

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.07200		mg/Kg		72	70 - 130	25	35
Toluene	<0.00200	U	0.0994	0.07031		mg/Kg		71	70 - 130	23	35
Ethylbenzene	<0.00200	U	0.0994	0.07109		mg/Kg		72	70 - 130	19	35
m,p-Xylenes	<0.00399	U	0.199	0.1526		mg/Kg		77	70 - 130	19	35
o-Xylene	<0.00200	U	0.0994	0.07528		mg/Kg		76	70 - 130	19	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-8690-1 MSD

Matrix: Solid

Analysis Batch: 13425

Client Sample ID: C-495

Prep Type: Total/NA

Prep Batch: 13416

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-13730/1-A

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13730

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 09:30	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 09:30	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 09:30	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1-Chlorooctane (Surr)	90		70 - 130			12/02/21 11:27	12/03/21 09:30	1	
o-Terphenyl (Surr)	105		70 - 130			12/02/21 11:27	12/03/21 09:30	1	

Lab Sample ID: LCS 880-13730/2-A

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13730

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	756.7		mg/Kg		76	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	746.3		mg/Kg		75	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	76		70 - 130							
o-Terphenyl (Surr)	77		70 - 130							

Lab Sample ID: LCSD 880-13730/3-A

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13730

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	804.9		mg/Kg		80	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	848.7		mg/Kg		85	70 - 130	13	20
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	94		70 - 130								
o-Terphenyl (Surr)	97		70 - 130								

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1635-A-1-O MS

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13730

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1081		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1092		mg/Kg		106	70 - 130		

Lab Sample ID: 890-1635-A-1-P MSD

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1175		mg/Kg		118	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1107		mg/Kg		107	70 - 130	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-13643/1-A

Matrix: Solid

Analysis Batch: 14367

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/09/21 21:14	1

Lab Sample ID: LCS 880-13643/2-A

Matrix: Solid

Analysis Batch: 14367

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	269.7		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-13643/3-A

Matrix: Solid

Analysis Batch: 14367

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	271.4		mg/Kg		109	90 - 110	1	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-8690-1 MS										Client Sample ID: C-495		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 14367												
	Sample	Sample	Spike	MS	MS				%Rec.			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	171	F1	249	452.5	F1	mg/Kg		113	90 - 110			

Lab Sample ID: 880-8690-1 MSD										Client Sample ID: C-495		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 14367												
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	171	F1	249	453.0	F1	mg/Kg		113	90 - 110	0	20	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

GC VOA

Prep Batch: 13361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8690-2	C-482	Total/NA	Solid	5035	
880-8690-3	C-483	Total/NA	Solid	5035	
880-8690-4	C-484	Total/NA	Solid	5035	
880-8690-5	C-494	Total/NA	Solid	5035	
MB 880-13361/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13361/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13361/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8623-A-32-F MS	Matrix Spike	Total/NA	Solid	5035	
880-8623-A-32-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 13416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8690-1	C-495	Total/NA	Solid	5035	
MB 880-13416/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13416/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13416/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8690-1 MS	C-495	Total/NA	Solid	5035	
880-8690-1 MSD	C-495	Total/NA	Solid	5035	

Analysis Batch: 13425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8690-1	C-495	Total/NA	Solid	8021B	13416
MB 880-13416/5-A	Method Blank	Total/NA	Solid	8021B	13416
LCS 880-13416/1-A	Lab Control Sample	Total/NA	Solid	8021B	13416
LCSD 880-13416/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13416
880-8690-1 MS	C-495	Total/NA	Solid	8021B	13416
880-8690-1 MSD	C-495	Total/NA	Solid	8021B	13416

Analysis Batch: 13508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8690-1	C-495	Total/NA	Solid	Total BTEX	

Analysis Batch: 13591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8690-2	C-482	Total/NA	Solid	8021B	13361
880-8690-3	C-483	Total/NA	Solid	8021B	13361
880-8690-4	C-484	Total/NA	Solid	8021B	13361
880-8690-5	C-494	Total/NA	Solid	8021B	13361
MB 880-13361/5-A	Method Blank	Total/NA	Solid	8021B	13361
LCS 880-13361/1-A	Lab Control Sample	Total/NA	Solid	8021B	13361
LCSD 880-13361/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13361
880-8623-A-32-F MS	Matrix Spike	Total/NA	Solid	8021B	13361
880-8623-A-32-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	13361

Analysis Batch: 13868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8690-2	C-482	Total/NA	Solid	Total BTEX	
880-8690-3	C-483	Total/NA	Solid	Total BTEX	
880-8690-4	C-484	Total/NA	Solid	Total BTEX	
880-8690-5	C-494	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

GC Semi VOA

Prep Batch: 13730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8690-1	C-495	Total/NA	Solid	8015NM Prep	
880-8690-2	C-482	Total/NA	Solid	8015NM Prep	
880-8690-3	C-483	Total/NA	Solid	8015NM Prep	
880-8690-4	C-484	Total/NA	Solid	8015NM Prep	
880-8690-5	C-494	Total/NA	Solid	8015NM Prep	
MB 880-13730/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13730/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13730/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1635-A-1-O MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1635-A-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8690-1	C-495	Total/NA	Solid	8015B NM	13730
880-8690-2	C-482	Total/NA	Solid	8015B NM	13730
880-8690-3	C-483	Total/NA	Solid	8015B NM	13730
880-8690-4	C-484	Total/NA	Solid	8015B NM	13730
880-8690-5	C-494	Total/NA	Solid	8015B NM	13730
MB 880-13730/1-A	Method Blank	Total/NA	Solid	8015B NM	13730
LCS 880-13730/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13730
LCSD 880-13730/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13730
890-1635-A-1-O MS	Matrix Spike	Total/NA	Solid	8015B NM	13730
890-1635-A-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13730

Analysis Batch: 14112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8690-1	C-495	Total/NA	Solid	8015 NM	
880-8690-2	C-482	Total/NA	Solid	8015 NM	
880-8690-3	C-483	Total/NA	Solid	8015 NM	
880-8690-4	C-484	Total/NA	Solid	8015 NM	
880-8690-5	C-494	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 13643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8690-1	C-495	Soluble	Solid	DI Leach	
880-8690-2	C-482	Soluble	Solid	DI Leach	
880-8690-3	C-483	Soluble	Solid	DI Leach	
880-8690-4	C-484	Soluble	Solid	DI Leach	
880-8690-5	C-494	Soluble	Solid	DI Leach	
MB 880-13643/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-13643/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-13643/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8690-1 MS	C-495	Soluble	Solid	DI Leach	
880-8690-1 MSD	C-495	Soluble	Solid	DI Leach	

Analysis Batch: 14367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8690-1	C-495	Soluble	Solid	300.0	13643
880-8690-2	C-482	Soluble	Solid	300.0	13643

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

HPLC/IC (Continued)

Analysis Batch: 14367 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8690-3	C-483	Soluble	Solid	300.0	13643
880-8690-4	C-484	Soluble	Solid	300.0	13643
880-8690-5	C-494	Soluble	Solid	300.0	13643
MB 880-13643/1-A	Method Blank	Soluble	Solid	300.0	13643
LCS 880-13643/2-A	Lab Control Sample	Soluble	Solid	300.0	13643
LCSD 880-13643/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	13643
880-8690-1 MS	C-495	Soluble	Solid	300.0	13643
880-8690-1 MSD	C-495	Soluble	Solid	300.0	13643

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Client Sample ID: C-495

Lab Sample ID: 880-8690-1

Date Collected: 11/24/21 07:30

Matrix: Solid

Date Received: 11/29/21 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	13416	11/30/21 08:22	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13425	11/30/21 12:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13508	11/30/21 15:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 13:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	13643	12/01/21 11:08	CA	XEN MID
Soluble	Analysis	300.0		1			14367	12/09/21 21:34	CH	XEN MID

Client Sample ID: C-482

Lab Sample ID: 880-8690-2

Date Collected: 11/24/21 07:45

Matrix: Solid

Date Received: 11/29/21 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	13361	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/01/21 17:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 13:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	13643	12/01/21 11:08	CA	XEN MID
Soluble	Analysis	300.0		1			14367	12/09/21 21:54	CH	XEN MID

Client Sample ID: C-483

Lab Sample ID: 880-8690-3

Date Collected: 11/24/21 08:00

Matrix: Solid

Date Received: 11/29/21 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	13361	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/01/21 17:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 14:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	13643	12/01/21 11:08	CA	XEN MID
Soluble	Analysis	300.0		1			14367	12/09/21 22:01	CH	XEN MID

Client Sample ID: C-484

Lab Sample ID: 880-8690-4

Date Collected: 11/24/21 08:55

Matrix: Solid

Date Received: 11/29/21 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	13361	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/01/21 17:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:31	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Client Sample ID: C-484

Lab Sample ID: 880-8690-4

Date Collected: 11/24/21 08:55

Matrix: Solid

Date Received: 11/29/21 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 14:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	13643	12/01/21 11:08	CA	XEN MID
Soluble	Analysis	300.0		1			14367	12/09/21 22:07	CH	XEN MID

Client Sample ID: C-494

Lab Sample ID: 880-8690-5

Date Collected: 11/24/21 09:15

Matrix: Solid

Date Received: 11/29/21 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	13361	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/01/21 18:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 15:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	13643	12/01/21 11:08	CA	XEN MID
Soluble	Analysis	300.0		5			14367	12/09/21 22:14	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8690-1
SDG: 21-0105-05

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-8690-1	C-495	Solid	11/24/21 07:30	11/29/21 09:44
880-8690-2	C-482	Solid	11/24/21 07:45	11/29/21 09:44
880-8690-3	C-483	Solid	11/24/21 08:00	11/29/21 09:44
880-8690-4	C-484	Solid	11/24/21 08:55	11/29/21 09:44
880-8690-5	C-494	Solid	11/24/21 09:15	11/29/21 09:44

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Marson & Associates, Inc.

Environmental Consultants



880-8690 Chain of Custody

Midland TX 79701
432 687 0901

DATE 11-29-2021 PAGE 1 OF 1

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Pa/M10

LAI PROJECT # 21-0105-05 COLLECTOR MB

8690

CHAIN-OF-CUSTODY

No. 2232

12/10/2021

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION					ANALYSES	FIELD NOTES
						HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESSERVED		
C-495		11-24-21	0730	S	1						☒ BTEX ☒ MTBE ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☒ DIESEL - MOD 8015 ☒ OIL - MOD 8015 ☒ VOC 8260 ☒ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ TCLP METALS (RCRA) ☐ TCLP VOC ☐ TCLP PCBs ☐ TCLP METALS (RCRA) ☐ TCLP HERB ☐ TCLP PEST ☐ TOTAL METALS (RCRA) ☐ LEAD - TOTAL ☐ TOX ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PENTACHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
C-482			0745									
C-483			0800									
C-484			0855									
C-494			0915									
TOTAL <u>5</u>												
RECEIVED BY (Signature) <u>Michael Miller</u> DATE/TIME <u>11/29 9:40 AM</u> RECEIVED BY (Signature) _____												
RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____												
RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____												
LABORATORY <u>Envco</u> TURN AROUND TIME <u>NORMAL</u> ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐												
LABORATORY USE ONLY: RECEIVING TEMP <u>10.0/6.1</u> THERM# <u>IK8</u> ID <u>10</u> CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED CARRIER BILL # _____ HAND DELIVERED ☒												

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-8690-1

SDG Number: 21-0105-05

Login Number: 8690

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1654-1
Client Project/Site: Palmio AST

For:

Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/15/2021 10:00:31 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1654-1

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Job ID: 890-1654-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1654-1

Comments

No additional comments.

Receipt

The samples were received on 11/29/2021 3:17 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 23.4° C.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-13650 and analytical batch 880-14305 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-504 2.5'

Lab Sample ID: 890-1654-1

Date Collected: 11/29/21 13:00

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 03:02	1
Toluene	0.00231		0.00198	mg/Kg		12/01/21 08:30	12/02/21 03:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 03:02	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		12/01/21 08:30	12/02/21 03:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 03:02	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/01/21 08:30	12/02/21 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/01/21 08:30	12/02/21 03:02	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/01/21 08:30	12/02/21 03:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/03/21 10:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 18:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 18:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130	12/03/21 08:25	12/03/21 18:31	1
o-Terphenyl (Surr)	79		70 - 130	12/03/21 08:25	12/03/21 18:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	539		5.04	mg/Kg			12/09/21 07:25	1

Client Sample ID: C-508 2.5'

Lab Sample ID: 890-1654-2

Date Collected: 11/29/21 13:01

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:30	12/02/21 04:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:30	12/02/21 04:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:30	12/02/21 04:52	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		12/01/21 08:30	12/02/21 04:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:30	12/02/21 04:52	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/01/21 08:30	12/02/21 04:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/01/21 08:30	12/02/21 04:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-508 2.5'

Lab Sample ID: 890-1654-2

Date Collected: 11/29/21 13:01

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	12/01/21 08:30	12/02/21 04:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/03/21 10:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 18:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 18:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			12/03/21 08:25	12/03/21 18:52	1
o-Terphenyl (Surr)	73		70 - 130			12/03/21 08:25	12/03/21 18:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	298		4.98	mg/Kg			12/09/21 07:32	1

Client Sample ID: C-524 2.5'

Lab Sample ID: 890-1654-3

Date Collected: 11/29/21 13:02

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 05:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 05:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 05:12	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/01/21 08:30	12/02/21 05:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 05:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/21 08:30	12/02/21 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/01/21 08:30	12/02/21 05:12	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/01/21 08:30	12/02/21 05:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/03/21 10:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/06/21 15:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-524 2.5'

Lab Sample ID: 890-1654-3

Date Collected: 11/29/21 13:02

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 2.5'

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 19:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 19:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 19:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			12/03/21 08:25	12/03/21 19:14	1
o-Terphenyl (Surr)	81		70 - 130			12/03/21 08:25	12/03/21 19:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		4.95	mg/Kg			12/09/21 07:52	1

Client Sample ID: C-488 2.5'

Lab Sample ID: 890-1654-4

Date Collected: 11/29/21 13:03

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/01/21 08:30	12/02/21 05:32	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/01/21 08:30	12/02/21 05:32	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/01/21 08:30	12/02/21 05:32	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/01/21 08:30	12/02/21 05:32	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/01/21 08:30	12/02/21 05:32	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/01/21 08:30	12/02/21 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			12/01/21 08:30	12/02/21 05:32	1
1,4-Difluorobenzene (Surr)	104		70 - 130			12/01/21 08:30	12/02/21 05:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/03/21 10:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/03/21 08:25	12/03/21 19:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/03/21 08:25	12/03/21 19:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/03/21 08:25	12/03/21 19:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			12/03/21 08:25	12/03/21 19:35	1
o-Terphenyl (Surr)	83		70 - 130			12/03/21 08:25	12/03/21 19:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-488 2.5'

Lab Sample ID: 890-1654-4

Date Collected: 11/29/21 13:03

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 2.5'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	239		5.01	mg/Kg			12/09/21 07:58	1

Client Sample ID: C-503 2.5'

Lab Sample ID: 890-1654-5

Date Collected: 11/29/21 13:04

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 05:53	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 05:53	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 05:53	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		12/01/21 08:30	12/02/21 05:53	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 05:53	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/01/21 08:30	12/02/21 05:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			12/01/21 08:30	12/02/21 05:53	1
1,4-Difluorobenzene (Surr)	99		70 - 130			12/01/21 08:30	12/02/21 05:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/03/21 10:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 16:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 16:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 16:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			12/02/21 11:27	12/03/21 16:10	1
o-Terphenyl (Surr)	97		70 - 130			12/02/21 11:27	12/03/21 16:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	738		4.97	mg/Kg			12/09/21 08:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-501 3.5'

Lab Sample ID: 890-1654-6

Date Collected: 11/29/21 13:06

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 3.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 06:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 06:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 06:13	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/01/21 08:30	12/02/21 06:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 06:13	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/01/21 08:30	12/02/21 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/01/21 08:30	12/02/21 06:13	1
1,4-Difluorobenzene (Surr)	88		70 - 130	12/01/21 08:30	12/02/21 06:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/03/21 10:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/02/21 11:27	12/03/21 16:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/02/21 11:27	12/03/21 16:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/02/21 11:27	12/03/21 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	12/02/21 11:27	12/03/21 16:31	1
o-Terphenyl (Surr)	101		70 - 130	12/02/21 11:27	12/03/21 16:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		5.00	mg/Kg			12/09/21 08:12	1

Client Sample ID: C-511 3.5'

Lab Sample ID: 890-1654-7

Date Collected: 11/29/21 13:07

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 3.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:30	12/02/21 06:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:30	12/02/21 06:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:30	12/02/21 06:34	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		12/01/21 08:30	12/02/21 06:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:30	12/02/21 06:34	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/01/21 08:30	12/02/21 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/01/21 08:30	12/02/21 06:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-511 3.5'

Lab Sample ID: 890-1654-7

Date Collected: 11/29/21 13:07

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 3.5'

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	12/01/21 08:30	12/02/21 06:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/03/21 10:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 16:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 16:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 16:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			12/02/21 11:27	12/03/21 16:52	1
o-Terphenyl (Surr)	97		70 - 130			12/02/21 11:27	12/03/21 16:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	480		5.00	mg/Kg			12/09/21 08:18	1

Client Sample ID: C-490 2.5'

Lab Sample ID: 890-1654-8

Date Collected: 11/29/21 13:08

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 06:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 06:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 06:54	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/02/21 06:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/02/21 06:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/02/21 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/01/21 08:30	12/02/21 06:54	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/01/21 08:30	12/02/21 06:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/03/21 10:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/06/21 15:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-490 2.5'

Lab Sample ID: 890-1654-8

Date Collected: 11/29/21 13:08

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 2.5'

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 17:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 17:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			12/02/21 11:27	12/03/21 17:13	1
o-Terphenyl (Surr)	98		70 - 130			12/02/21 11:27	12/03/21 17:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	369		5.03	mg/Kg			12/09/21 08:25	1

Client Sample ID: C-527 3.5'

Lab Sample ID: 890-1654-9

Date Collected: 11/29/21 13:10

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 3.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 07:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 07:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 07:14	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/01/21 08:30	12/02/21 07:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:30	12/02/21 07:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/21 08:30	12/02/21 07:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			12/01/21 08:30	12/02/21 07:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/01/21 08:30	12/02/21 07:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/03/21 10:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 17:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 17:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			12/02/21 11:27	12/03/21 17:34	1
o-Terphenyl (Surr)	96		70 - 130			12/02/21 11:27	12/03/21 17:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-527 3.5'

Lab Sample ID: 890-1654-9

Date Collected: 11/29/21 13:10

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 3.5'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	304		5.04	mg/Kg			12/09/21 08:32	1

Client Sample ID: C-499 4.1'

Lab Sample ID: 890-1654-10

Date Collected: 11/29/21 13:11

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 07:35	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 07:35	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 07:35	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		12/01/21 08:30	12/02/21 07:35	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/01/21 08:30	12/02/21 07:35	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/01/21 08:30	12/02/21 07:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			12/01/21 08:30	12/02/21 07:35	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/01/21 08:30	12/02/21 07:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/03/21 10:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 17:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 17:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			12/02/21 11:27	12/03/21 17:55	1
o-Terphenyl (Surr)	104		70 - 130			12/02/21 11:27	12/03/21 17:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	502		5.03	mg/Kg			12/08/21 21:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-502 2.5'

Lab Sample ID: 890-1654-11

Date Collected: 11/29/21 13:12

Matrix: Solid

Date Received: 11/29/21 15:17

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/01/21 08:30	12/02/21 07:55	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/01/21 08:30	12/02/21 07:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/01/21 08:30	12/02/21 07:55	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/01/21 08:30	12/02/21 07:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/01/21 08:30	12/02/21 07:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/01/21 08:30	12/02/21 07:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/01/21 08:30	12/02/21 07:55	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/01/21 08:30	12/02/21 07:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/03/21 10:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/02/21 11:27	12/03/21 18:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/02/21 11:27	12/03/21 18:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/02/21 11:27	12/03/21 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	12/02/21 11:27	12/03/21 18:16	1
o-Terphenyl (Surr)	99		70 - 130	12/02/21 11:27	12/03/21 18:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		5.04	mg/Kg			12/08/21 21:58	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-1623-A-1-H MS	Matrix Spike	132 S1+	91
890-1623-A-1-I MSD	Matrix Spike Duplicate	123	103
890-1654-1	C-504 2.5'	123	103
890-1654-2	C-508 2.5'	121	88
890-1654-3	C-524 2.5'	111	89
890-1654-4	C-488 2.5'	130	104
890-1654-5	C-503 2.5'	127	99
890-1654-6	C-501 3.5'	127	88
890-1654-7	C-511 3.5'	123	101
890-1654-8	C-490 2.5'	118	99
890-1654-9	C-527 3.5'	126	100
890-1654-10	C-499 4.1'	118	100
890-1654-11	C-502 2.5'	123	105
LCS 880-13373/1-A	Lab Control Sample	113	100
LCSD 880-13373/2-A	Lab Control Sample Dup	110	95
MB 880-13361/5-A	Method Blank	121	103
MB 880-13373/5-A	Method Blank	120	94
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-1635-A-1-O MS	Matrix Spike	96	98
890-1635-A-1-P MSD	Matrix Spike Duplicate	96	96
890-1654-1	C-504 2.5'	80	79
890-1654-2	C-508 2.5'	75	73
890-1654-3	C-524 2.5'	83	81
890-1654-4	C-488 2.5'	84	83
890-1654-5	C-503 2.5'	85	97
890-1654-6	C-501 3.5'	88	101
890-1654-7	C-511 3.5'	85	97
890-1654-8	C-490 2.5'	86	98
890-1654-9	C-527 3.5'	85	96
890-1654-10	C-499 4.1'	92	104
890-1654-11	C-502 2.5'	88	99
890-1658-A-1-D MS	Matrix Spike	71	65 S1-
890-1658-A-1-E MSD	Matrix Spike Duplicate	72	65 S1-
LCS 880-13730/2-A	Lab Control Sample	76	77
LCS 880-13833/2-A	Lab Control Sample	64 S1-	61 S1-
LCSD 880-13730/3-A	Lab Control Sample Dup	94	97
LCSD 880-13833/3-A	Lab Control Sample Dup	69 S1-	68 S1-
MB 880-13730/1-A	Method Blank	90	105
MB 880-13833/1-A	Method Blank	97	97
Surrogate Legend			

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Project/Site: Palmio AST

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Job ID: 890-1654-1

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Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13361/5-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13361

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 11:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/01/21 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/01/21 08:30	12/01/21 11:55	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/01/21 08:30	12/01/21 11:55	1

Lab Sample ID: MB 880-13373/5-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13373

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 23:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 23:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 23:30	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/01/21 23:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:30	12/01/21 23:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/01/21 08:30	12/01/21 23:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/01/21 08:30	12/01/21 23:30	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/01/21 08:30	12/01/21 23:30	1

Lab Sample ID: LCS 880-13373/1-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09263		mg/Kg		93	70 - 130
Toluene	0.100	0.09380		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09268		mg/Kg		93	70 - 130
m,p-Xylenes	0.200	0.1828		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09349		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-13373/2-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13373

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09572		mg/Kg		96	70 - 130	3	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-13373/2-A

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13373

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.1034		mg/Kg		103	70 - 130	10	35
Ethylbenzene	0.100	0.09752		mg/Kg		98	70 - 130	5	35
m,p-Xylenes	0.200	0.1905		mg/Kg		95	70 - 130	4	35
o-Xylene	0.100	0.09364		mg/Kg		94	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-1623-A-1-H MS

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.100	0.05871	F1	mg/Kg		58	70 - 130
Toluene	<0.00200	U	0.100	0.06451	F1	mg/Kg		64	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.07056		mg/Kg		70	70 - 130
m,p-Xylenes	<0.00399	U	0.201	0.1413		mg/Kg		70	70 - 130
o-Xylene	<0.00200	U	0.100	0.07061		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-1623-A-1-I MSD

Matrix: Solid

Analysis Batch: 13591

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13373

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08560	F2	mg/Kg		86	70 - 130	37	35
Toluene	<0.00200	U	0.0990	0.08775		mg/Kg		89	70 - 130	31	35
Ethylbenzene	<0.00200	U	0.0990	0.08066		mg/Kg		81	70 - 130	13	35
m,p-Xylenes	<0.00399	U	0.198	0.1580		mg/Kg		80	70 - 130	11	35
o-Xylene	<0.00200	U	0.0990	0.07817		mg/Kg		79	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-13730/1-A

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13730

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 09:30	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-13730/1-A

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13730

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 09:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 09:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			12/02/21 11:27	12/03/21 09:30	1
o-Terphenyl (Surr)	105		70 - 130			12/02/21 11:27	12/03/21 09:30	1

Lab Sample ID: LCS 880-13730/2-A

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	756.7		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	1000	746.3		mg/Kg		75	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	76		70 - 130				
o-Terphenyl (Surr)	77		70 - 130				

Lab Sample ID: LCSD 880-13730/3-A

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13730

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	804.9		mg/Kg		80	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	848.7		mg/Kg		85	70 - 130	13	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	94		70 - 130						
o-Terphenyl (Surr)	97		70 - 130						

Lab Sample ID: 890-1635-A-1-O MS

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1081		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1092		mg/Kg		106	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	96		70 - 130						
o-Terphenyl (Surr)	98		70 - 130						

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1635-A-1-P MSD

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1175		mg/Kg		118	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1107		mg/Kg		107	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	96		70 - 130								
o-Terphenyl (Surr)	96		70 - 130								

Lab Sample ID: MB 880-13833/1-A

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13833

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 10:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 10:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 10:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			12/03/21 08:25	12/03/21 10:36	1
o-Terphenyl (Surr)	97		70 - 130			12/03/21 08:25	12/03/21 10:36	1

Lab Sample ID: LCS 880-13833/2-A

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	839.3		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	712.0		mg/Kg		71	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	64	S1-	70 - 130						
o-Terphenyl (Surr)	61	S1-	70 - 130						

Lab Sample ID: LCSD 880-13833/3-A

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13833

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	831.2		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	800.1		mg/Kg		80	70 - 130	12	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-13833/3-A

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13833

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	69	S1-	70 - 130
o-Terphenyl (Surr)	68	S1-	70 - 130

Lab Sample ID: 890-1658-A-1-D MS

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	821.0		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	827.5		mg/Kg		83	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	71		70 - 130
o-Terphenyl (Surr)	65	S1-	70 - 130

Lab Sample ID: 890-1658-A-1-E MSD

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	830.7		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	837.0		mg/Kg		84	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	72		70 - 130
o-Terphenyl (Surr)	65	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-13650/1-A

Matrix: Solid

Analysis Batch: 14305

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/09/21 05:12	1

Lab Sample ID: LCS 880-13650/2-A

Matrix: Solid

Analysis Batch: 14305

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	268.2		mg/Kg		107	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-13650/3-A

Matrix: Solid

Analysis Batch: 14305

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	268.3		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-1653-A-9-E MS

Matrix: Solid

Analysis Batch: 14305

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<4.96	U F1	248	284.4	F1	mg/Kg		115	90 - 110		

Lab Sample ID: 890-1653-A-9-F MSD

Matrix: Solid

Analysis Batch: 14305

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<4.96	U F1	248	286.7	F1	mg/Kg		116	90 - 110	1	20

Lab Sample ID: MB 880-13651/1-A

Matrix: Solid

Analysis Batch: 14313

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/08/21 15:39	1

Lab Sample ID: LCS 880-13651/2-A

Matrix: Solid

Analysis Batch: 14313

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.1		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-13651/3-A

Matrix: Solid

Analysis Batch: 14313

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	257.7		mg/Kg		103	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

GC VOA

Prep Batch: 13361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-13361/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 13373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-1	C-504 2.5'	Total/NA	Solid	5035	
890-1654-2	C-508 2.5'	Total/NA	Solid	5035	
890-1654-3	C-524 2.5'	Total/NA	Solid	5035	
890-1654-4	C-488 2.5'	Total/NA	Solid	5035	
890-1654-5	C-503 2.5'	Total/NA	Solid	5035	
890-1654-6	C-501 3.5'	Total/NA	Solid	5035	
890-1654-7	C-511 3.5'	Total/NA	Solid	5035	
890-1654-8	C-490 2.5'	Total/NA	Solid	5035	
890-1654-9	C-527 3.5'	Total/NA	Solid	5035	
890-1654-10	C-499 4.1'	Total/NA	Solid	5035	
890-1654-11	C-502 2.5'	Total/NA	Solid	5035	
MB 880-13373/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13373/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13373/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1623-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-1623-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 13591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-1	C-504 2.5'	Total/NA	Solid	8021B	13373
890-1654-2	C-508 2.5'	Total/NA	Solid	8021B	13373
890-1654-3	C-524 2.5'	Total/NA	Solid	8021B	13373
890-1654-4	C-488 2.5'	Total/NA	Solid	8021B	13373
890-1654-5	C-503 2.5'	Total/NA	Solid	8021B	13373
890-1654-6	C-501 3.5'	Total/NA	Solid	8021B	13373
890-1654-7	C-511 3.5'	Total/NA	Solid	8021B	13373
890-1654-8	C-490 2.5'	Total/NA	Solid	8021B	13373
890-1654-9	C-527 3.5'	Total/NA	Solid	8021B	13373
890-1654-10	C-499 4.1'	Total/NA	Solid	8021B	13373
890-1654-11	C-502 2.5'	Total/NA	Solid	8021B	13373
MB 880-13361/5-A	Method Blank	Total/NA	Solid	8021B	13361
MB 880-13373/5-A	Method Blank	Total/NA	Solid	8021B	13373
LCS 880-13373/1-A	Lab Control Sample	Total/NA	Solid	8021B	13373
LCSD 880-13373/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13373
890-1623-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	13373
890-1623-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	13373

Analysis Batch: 13868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-1	C-504 2.5'	Total/NA	Solid	Total BTEX	
890-1654-2	C-508 2.5'	Total/NA	Solid	Total BTEX	
890-1654-3	C-524 2.5'	Total/NA	Solid	Total BTEX	
890-1654-4	C-488 2.5'	Total/NA	Solid	Total BTEX	
890-1654-5	C-503 2.5'	Total/NA	Solid	Total BTEX	
890-1654-6	C-501 3.5'	Total/NA	Solid	Total BTEX	
890-1654-7	C-511 3.5'	Total/NA	Solid	Total BTEX	
890-1654-8	C-490 2.5'	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

GC VOA (Continued)

Analysis Batch: 13868 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-9	C-527 3.5'	Total/NA	Solid	Total BTEX	
890-1654-10	C-499 4.1'	Total/NA	Solid	Total BTEX	
890-1654-11	C-502 2.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 13730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-5	C-503 2.5'	Total/NA	Solid	8015NM Prep	
890-1654-6	C-501 3.5'	Total/NA	Solid	8015NM Prep	
890-1654-7	C-511 3.5'	Total/NA	Solid	8015NM Prep	
890-1654-8	C-490 2.5'	Total/NA	Solid	8015NM Prep	
890-1654-9	C-527 3.5'	Total/NA	Solid	8015NM Prep	
890-1654-10	C-499 4.1'	Total/NA	Solid	8015NM Prep	
890-1654-11	C-502 2.5'	Total/NA	Solid	8015NM Prep	
MB 880-13730/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13730/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13730/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1635-A-1-O MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1635-A-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-5	C-503 2.5'	Total/NA	Solid	8015B NM	13730
890-1654-6	C-501 3.5'	Total/NA	Solid	8015B NM	13730
890-1654-7	C-511 3.5'	Total/NA	Solid	8015B NM	13730
890-1654-8	C-490 2.5'	Total/NA	Solid	8015B NM	13730
890-1654-9	C-527 3.5'	Total/NA	Solid	8015B NM	13730
890-1654-10	C-499 4.1'	Total/NA	Solid	8015B NM	13730
890-1654-11	C-502 2.5'	Total/NA	Solid	8015B NM	13730
MB 880-13730/1-A	Method Blank	Total/NA	Solid	8015B NM	13730
LCS 880-13730/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13730
LCSD 880-13730/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13730
890-1635-A-1-O MS	Matrix Spike	Total/NA	Solid	8015B NM	13730
890-1635-A-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13730

Prep Batch: 13833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-1	C-504 2.5'	Total/NA	Solid	8015NM Prep	
890-1654-2	C-508 2.5'	Total/NA	Solid	8015NM Prep	
890-1654-3	C-524 2.5'	Total/NA	Solid	8015NM Prep	
890-1654-4	C-488 2.5'	Total/NA	Solid	8015NM Prep	
MB 880-13833/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13833/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13833/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1658-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1658-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-1	C-504 2.5'	Total/NA	Solid	8015B NM	13833

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

GC Semi VOA (Continued)

Analysis Batch: 13850 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-2	C-508 2.5'	Total/NA	Solid	8015B NM	13833
890-1654-3	C-524 2.5'	Total/NA	Solid	8015B NM	13833
890-1654-4	C-488 2.5'	Total/NA	Solid	8015B NM	13833
MB 880-13833/1-A	Method Blank	Total/NA	Solid	8015B NM	13833
LCS 880-13833/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13833
LCSD 880-13833/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13833
890-1658-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	13833
890-1658-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13833

Analysis Batch: 14112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-1	C-504 2.5'	Total/NA	Solid	8015 NM	
890-1654-2	C-508 2.5'	Total/NA	Solid	8015 NM	
890-1654-3	C-524 2.5'	Total/NA	Solid	8015 NM	
890-1654-4	C-488 2.5'	Total/NA	Solid	8015 NM	
890-1654-5	C-503 2.5'	Total/NA	Solid	8015 NM	
890-1654-6	C-501 3.5'	Total/NA	Solid	8015 NM	
890-1654-7	C-511 3.5'	Total/NA	Solid	8015 NM	
890-1654-8	C-490 2.5'	Total/NA	Solid	8015 NM	
890-1654-9	C-527 3.5'	Total/NA	Solid	8015 NM	
890-1654-10	C-499 4.1'	Total/NA	Solid	8015 NM	
890-1654-11	C-502 2.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 13650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-1	C-504 2.5'	Soluble	Solid	DI Leach	
890-1654-2	C-508 2.5'	Soluble	Solid	DI Leach	
890-1654-3	C-524 2.5'	Soluble	Solid	DI Leach	
890-1654-4	C-488 2.5'	Soluble	Solid	DI Leach	
890-1654-5	C-503 2.5'	Soluble	Solid	DI Leach	
890-1654-6	C-501 3.5'	Soluble	Solid	DI Leach	
890-1654-7	C-511 3.5'	Soluble	Solid	DI Leach	
890-1654-8	C-490 2.5'	Soluble	Solid	DI Leach	
890-1654-9	C-527 3.5'	Soluble	Solid	DI Leach	
MB 880-13650/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-13650/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-13650/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1653-A-9-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1653-A-9-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 13651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-10	C-499 4.1'	Soluble	Solid	DI Leach	
890-1654-11	C-502 2.5'	Soluble	Solid	DI Leach	
MB 880-13651/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-13651/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-13651/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8748-A-6-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8748-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

HPLC/IC

Analysis Batch: 14305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-1	C-504 2.5'	Soluble	Solid	300.0	13650
890-1654-2	C-508 2.5'	Soluble	Solid	300.0	13650
890-1654-3	C-524 2.5'	Soluble	Solid	300.0	13650
890-1654-4	C-488 2.5'	Soluble	Solid	300.0	13650
890-1654-5	C-503 2.5'	Soluble	Solid	300.0	13650
890-1654-6	C-501 3.5'	Soluble	Solid	300.0	13650
890-1654-7	C-511 3.5'	Soluble	Solid	300.0	13650
890-1654-8	C-490 2.5'	Soluble	Solid	300.0	13650
890-1654-9	C-527 3.5'	Soluble	Solid	300.0	13650
MB 880-13650/1-A	Method Blank	Soluble	Solid	300.0	13650
LCS 880-13650/2-A	Lab Control Sample	Soluble	Solid	300.0	13650
LCSD 880-13650/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	13650
890-1653-A-9-E MS	Matrix Spike	Soluble	Solid	300.0	13650
890-1653-A-9-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	13650

Analysis Batch: 14313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1654-10	C-499 4.1'	Soluble	Solid	300.0	13651
890-1654-11	C-502 2.5'	Soluble	Solid	300.0	13651
MB 880-13651/1-A	Method Blank	Soluble	Solid	300.0	13651
LCS 880-13651/2-A	Lab Control Sample	Soluble	Solid	300.0	13651
LCSD 880-13651/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	13651
880-8748-A-6-E MS	Matrix Spike	Soluble	Solid	300.0	13651
880-8748-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	13651

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-504 2.5'

Lab Sample ID: 890-1654-1

Date Collected: 11/29/21 13:00

Matrix: Solid

Date Received: 11/29/21 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 03:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 18:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 07:25	CH	XEN MID

Client Sample ID: C-508 2.5'

Lab Sample ID: 890-1654-2

Date Collected: 11/29/21 13:01

Matrix: Solid

Date Received: 11/29/21 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 04:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 18:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 07:32	CH	XEN MID

Client Sample ID: C-524 2.5'

Lab Sample ID: 890-1654-3

Date Collected: 11/29/21 13:02

Matrix: Solid

Date Received: 11/29/21 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 05:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 19:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 07:52	CH	XEN MID

Client Sample ID: C-488 2.5'

Lab Sample ID: 890-1654-4

Date Collected: 11/29/21 13:03

Matrix: Solid

Date Received: 11/29/21 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 05:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-488 2.5'

Date Collected: 11/29/21 13:03

Date Received: 11/29/21 15:17

Lab Sample ID: 890-1654-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 19:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 07:58	CH	XEN MID

Client Sample ID: C-503 2.5'

Date Collected: 11/29/21 13:04

Date Received: 11/29/21 15:17

Lab Sample ID: 890-1654-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 05:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 16:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 08:05	CH	XEN MID

Client Sample ID: C-501 3.5'

Date Collected: 11/29/21 13:06

Date Received: 11/29/21 15:17

Lab Sample ID: 890-1654-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 06:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 16:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 08:12	CH	XEN MID

Client Sample ID: C-511 3.5'

Date Collected: 11/29/21 13:07

Date Received: 11/29/21 15:17

Lab Sample ID: 890-1654-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 06:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 16:52	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-511 3.5'

Date Collected: 11/29/21 13:07

Date Received: 11/29/21 15:17

Lab Sample ID: 890-1654-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 08:18	CH	XEN MID

Client Sample ID: C-490 2.5'

Date Collected: 11/29/21 13:08

Date Received: 11/29/21 15:17

Lab Sample ID: 890-1654-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 06:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 17:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 08:25	CH	XEN MID

Client Sample ID: C-527 3.5'

Date Collected: 11/29/21 13:10

Date Received: 11/29/21 15:17

Lab Sample ID: 890-1654-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 07:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 17:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 08:32	CH	XEN MID

Client Sample ID: C-499 4.1'

Date Collected: 11/29/21 13:11

Date Received: 11/29/21 15:17

Lab Sample ID: 890-1654-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 07:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 17:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	13651	12/01/21 11:42	CA	XEN MID
Soluble	Analysis	300.0		1			14313	12/08/21 21:46	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Client Sample ID: C-502 2.5'

Lab Sample ID: 890-1654-11

Date Collected: 11/29/21 13:12

Matrix: Solid

Date Received: 11/29/21 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	13373	12/01/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13591	12/02/21 07:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 18:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	13651	12/01/21 11:42	CA	XEN MID
Soluble	Analysis	300.0		1			14313	12/08/21 21:58	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1654-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1654-1	C-504 2.5'	Solid	11/29/21 13:00	11/29/21 15:17	2.5'
890-1654-2	C-508 2.5'	Solid	11/29/21 13:01	11/29/21 15:17	2.5'
890-1654-3	C-524 2.5'	Solid	11/29/21 13:02	11/29/21 15:17	2.5'
890-1654-4	C-488 2.5'	Solid	11/29/21 13:03	11/29/21 15:17	2.5'
890-1654-5	C-503 2.5'	Solid	11/29/21 13:04	11/29/21 15:17	2.5'
890-1654-6	C-501 3.5'	Solid	11/29/21 13:06	11/29/21 15:17	3.5'
890-1654-7	C-511 3.5'	Solid	11/29/21 13:07	11/29/21 15:17	3.5'
890-1654-8	C-490 2.5'	Solid	11/29/21 13:08	11/29/21 15:17	2.5'
890-1654-9	C-527 3.5'	Solid	11/29/21 13:10	11/29/21 15:17	3.5'
890-1654-10	C-499 4.1'	Solid	11/29/21 13:11	11/29/21 15:17	4.1'
890-1654-11	C-502 2.5'	Solid	11/29/21 13:12	11/29/21 15:17	2.5'

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 86220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact		Phone	Taylor Holly		890-530-1
Shipping/Receiving		E-Mail	holly.taylor@eurofinsnet.com	State of Origin	Page
Company	Eurofins Xenco		Accreditations Required (See note): NELAP - Texas	New Mexico	Page 1 of 2
Address	1211 W. Florida Ave	Due Date Requested			Job #
City	Midland	12/3/2021			890-1654-1
State, Zip	TX 79701	TAT Requested (days)			
Phone	432-704-5440(Tel)	PO #:			
Email		WO #:			
Project Name	Palmito Ast	Project #:			
Site		88000254			
		SSOW#:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=issue, A=AA)
C-504 2 5' (890-1654-1)		11/29/21	13 00		Solid
C-508 2 5' (890-1654-2)		11/29/21	13 01		Solid
C-524 2 5' (890-1654-3)		11/29/21	13 02		Solid
C-488 2 5' (890-1654-4)		11/29/21	13 03		Solid
C-503 2 5' (890-1654-5)		11/29/21	13 04		Solid
C-501 3 5' (890-1654-6)		11/29/21	13 06		Solid
C-511 3 5' (890-1654-7)		11/29/21	13 07		Solid
C-490 2 5' (890-1654-8)		11/29/21	13 08		Solid
C-527 3 5' (890-1654-9)		11/29/21	13 10		Solid
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out-subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/estimation being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed		☐ Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months			
Deliverable Requested I II III IV Other (Specify)		Primary Deliverable Rank 2		Special Instructions/QC Requirements	
Empty Kit Relinquished by		Date	Time	Method of Shipment:	
Relinquished by <i>Chae Gup</i>		11-30-21		Received by <i>[Signature]</i>	
Relinquished by		Date/Time	Company	Received by <i>[Signature]</i>	
Relinquished by		Date/Time	Company	Received by <i>[Signature]</i>	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks.	

- Preservation Codes
- A - HCL
 - B - NaOH
 - C - Zn Acetate
 - D - Nitric Acid
 - E - NaHSO4
 - F - MeOH
 - G - Amchlor
 - H - Ascorbic Acid
 - I - Ice
 - J - DI Water
 - K - EDTA
 - L - EDA
 - Other:
 - M - Hexane
 - N - None
 - O - ASN2O2
 - P - Na2CO3
 - Q - Na2SO3
 - R - Na2S2O3
 - S - H2SO4
 - T - TSP Dodecaldehyde
 - U - Acetone
 - V - MCAA
 - W - pH 4-5
 - Z - other (specify)

Special Instructions/Note

Chain of Custody Record

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax. 575-988-3199

eurofins
Environment Testing
America

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1654-1

SDG Number:

Login Number: 1654**List Number: 1****Creator: Olivas, Nathaniel****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1654-1

SDG Number:

Login Number: 1654**List Number: 2****Creator: Lowe, Katie****List Source: Eurofins Xenco, Midland****List Creation: 12/01/21 12:01 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1658-1
Client Project/Site: Palmio AST

For:

Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/10/2021 4:36:35 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1658-1

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Job ID: 890-1658-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1658-1****Receipt**

The samples were received on 11/30/2021 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 25.2°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Client Sample ID: C-497 3.5'

Lab Sample ID: 890-1658-1

Date Collected: 11/30/21 08:30

Matrix: Solid

Date Received: 11/30/21 15:25

Sample Depth: 3.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/02/21 08:30	12/02/21 17:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/02/21 08:30	12/02/21 17:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/02/21 08:30	12/02/21 17:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/02/21 08:30	12/02/21 17:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/02/21 08:30	12/02/21 17:11	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/02/21 08:30	12/02/21 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/02/21 08:30	12/02/21 17:11	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/02/21 08:30	12/02/21 17:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/07/21 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 11:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 11:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	12/03/21 08:25	12/03/21 11:41	1
o-Terphenyl (Surr)	82		70 - 130	12/03/21 08:25	12/03/21 11:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		4.95	mg/Kg			12/09/21 23:07	1

Client Sample ID: C-485 2.5'

Lab Sample ID: 890-1658-2

Date Collected: 11/30/21 08:32

Matrix: Solid

Date Received: 11/30/21 15:25

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/02/21 08:30	12/02/21 17:31	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/02/21 08:30	12/02/21 17:31	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/02/21 08:30	12/02/21 17:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/02/21 08:30	12/02/21 17:31	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/02/21 08:30	12/02/21 17:31	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/02/21 08:30	12/02/21 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/02/21 08:30	12/02/21 17:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Client Sample ID: C-485 2.5'

Lab Sample ID: 890-1658-2

Date Collected: 11/30/21 08:32

Matrix: Solid

Date Received: 11/30/21 15:25

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	12/02/21 08:30	12/02/21 17:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/07/21 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 12:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 12:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 12:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	72		70 - 130			12/03/21 08:25	12/03/21 12:45	1
o-Terphenyl (Surr)	69	S1-	70 - 130			12/03/21 08:25	12/03/21 12:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	294		5.01	mg/Kg			12/09/21 23:18	1

Client Sample ID: C-525 3.5'

Lab Sample ID: 890-1658-3

Date Collected: 11/30/21 08:33

Matrix: Solid

Date Received: 11/30/21 15:25

Sample Depth: 3.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/02/21 08:30	12/02/21 17:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/02/21 08:30	12/02/21 17:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/02/21 08:30	12/02/21 17:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/02/21 08:30	12/02/21 17:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/02/21 08:30	12/02/21 17:52	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/02/21 08:30	12/02/21 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/02/21 08:30	12/02/21 17:52	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/02/21 08:30	12/02/21 17:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/07/21 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/06/21 15:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Client Sample ID: C-525 3.5'

Lab Sample ID: 890-1658-3

Date Collected: 11/30/21 08:33

Matrix: Solid

Date Received: 11/30/21 15:25

Sample Depth: 3.5'

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 13:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 13:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			12/03/21 08:25	12/03/21 13:07	1
o-Terphenyl (Surr)	74		70 - 130			12/03/21 08:25	12/03/21 13:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		4.97	mg/Kg			12/09/21 23:29	1

Client Sample ID: C-1177 4.1'

Lab Sample ID: 890-1658-4

Date Collected: 11/30/21 14:30

Matrix: Solid

Date Received: 11/30/21 15:25

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/02/21 08:30	12/02/21 18:12	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/02/21 08:30	12/02/21 18:12	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/02/21 08:30	12/02/21 18:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/02/21 08:30	12/02/21 18:12	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/02/21 08:30	12/02/21 18:12	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/02/21 08:30	12/02/21 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			12/02/21 08:30	12/02/21 18:12	1
1,4-Difluorobenzene (Surr)	112		70 - 130			12/02/21 08:30	12/02/21 18:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/07/21 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/03/21 08:25	12/03/21 13:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/03/21 08:25	12/03/21 13:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/03/21 08:25	12/03/21 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			12/03/21 08:25	12/03/21 13:28	1
o-Terphenyl (Surr)	71		70 - 130			12/03/21 08:25	12/03/21 13:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Client Sample ID: C-1177 4.1'

Lab Sample ID: 890-1658-4

Date Collected: 11/30/21 14:30

Matrix: Solid

Date Received: 11/30/21 15:25

Sample Depth: 4.1'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1360		5.00	mg/Kg			12/09/21 23:40	1

Client Sample ID: C-1183 4.1'

Lab Sample ID: 890-1658-5

Date Collected: 11/30/21 14:31

Matrix: Solid

Date Received: 11/30/21 15:25

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/02/21 08:30	12/02/21 18:33	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/02/21 08:30	12/02/21 18:33	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/02/21 08:30	12/02/21 18:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/02/21 08:30	12/02/21 18:33	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/02/21 08:30	12/02/21 18:33	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/02/21 08:30	12/02/21 18:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			12/02/21 08:30	12/02/21 18:33	1
1,4-Difluorobenzene (Surr)	113		70 - 130			12/02/21 08:30	12/02/21 18:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/07/21 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 13:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 13:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			12/03/21 08:25	12/03/21 13:50	1
o-Terphenyl (Surr)	73		70 - 130			12/03/21 08:25	12/03/21 13:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		5.00	mg/Kg			12/09/21 23:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Client Sample ID: C-1181 4.1

Lab Sample ID: 890-1658-6

Date Collected: 11/30/21 14:32

Matrix: Solid

Date Received: 11/30/21 15:25

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/02/21 08:30	12/02/21 18:53	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/02/21 08:30	12/02/21 18:53	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/02/21 08:30	12/02/21 18:53	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/02/21 08:30	12/02/21 18:53	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/02/21 08:30	12/02/21 18:53	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/02/21 08:30	12/02/21 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	12/02/21 08:30	12/02/21 18:53	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/02/21 08:30	12/02/21 18:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/07/21 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 14:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 14:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130	12/03/21 08:25	12/03/21 14:11	1
o-Terphenyl (Surr)	70		70 - 130	12/03/21 08:25	12/03/21 14:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	546		5.03	mg/Kg			12/10/21 00:02	1

Client Sample ID: C-1186 4.1'

Lab Sample ID: 890-1658-7

Date Collected: 11/30/21 14:33

Matrix: Solid

Date Received: 11/30/21 15:25

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/02/21 08:30	12/02/21 19:13	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/02/21 08:30	12/02/21 19:13	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/02/21 08:30	12/02/21 19:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/02/21 08:30	12/02/21 19:13	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/02/21 08:30	12/02/21 19:13	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/02/21 08:30	12/02/21 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/02/21 08:30	12/02/21 19:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Client Sample ID: C-1186 4.1'

Lab Sample ID: 890-1658-7

Date Collected: 11/30/21 14:33

Matrix: Solid

Date Received: 11/30/21 15:25

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	12/02/21 08:30	12/02/21 19:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/07/21 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 14:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 14:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	72		70 - 130			12/03/21 08:25	12/03/21 14:33	1
o-Terphenyl (Surr)	69	S1-	70 - 130			12/03/21 08:25	12/03/21 14:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	898		5.04	mg/Kg			12/10/21 00:13	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-8707-A-1-E MS	Matrix Spike	107	98
880-8707-A-1-F MSD	Matrix Spike Duplicate	110	107
890-1658-1	C-497 3.5'	111	104
890-1658-2	C-485 2.5'	115	104
890-1658-3	C-525 3.5'	120	99
890-1658-4	C-1177 4.1'	137 S1+	112
890-1658-5	C-1183 4.1'	126	113
890-1658-6	C-1181 4.1	129	98
890-1658-7	C-1186 4.1'	116	82
LCS 880-13654/1-A	Lab Control Sample	105	103
LCSD 880-13654/2-A	Lab Control Sample Dup	107	106
MB 880-13654/5-A	Method Blank	103	97
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1658-1	C-497 3.5'	84	82
890-1658-1 MS	C-497 3.5'	71	65 S1-
890-1658-1 MSD	C-497 3.5'	72	65 S1-
890-1658-2	C-485 2.5'	72	69 S1-
890-1658-3	C-525 3.5'	76	74
890-1658-4	C-1177 4.1'	76	71
890-1658-5	C-1183 4.1'	78	73
890-1658-6	C-1181 4.1	74	70
890-1658-7	C-1186 4.1'	72	69 S1-
LCS 880-13833/2-A	Lab Control Sample	64 S1-	61 S1-
LCSD 880-13833/3-A	Lab Control Sample Dup	69 S1-	68 S1-
MB 880-13833/1-A	Method Blank	97	97
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13654/5-A

Matrix: Solid

Analysis Batch: 13721

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13654

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/02/21 08:30	12/02/21 11:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/02/21 08:30	12/02/21 11:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/02/21 08:30	12/02/21 11:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/02/21 08:30	12/02/21 11:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/02/21 08:30	12/02/21 11:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/02/21 08:30	12/02/21 11:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	12/02/21 08:30	12/02/21 11:22	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/02/21 08:30	12/02/21 11:22	1

Lab Sample ID: LCS 880-13654/1-A

Matrix: Solid

Analysis Batch: 13721

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09243		mg/Kg		92	70 - 130
Toluene	0.100	0.08534		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08698		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1807		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08704		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-13654/2-A

Matrix: Solid

Analysis Batch: 13721

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13654

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09334		mg/Kg		93	70 - 130	1	35
Toluene	0.100	0.08583		mg/Kg		86	70 - 130	1	35
Ethylbenzene	0.100	0.08826		mg/Kg		88	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1656		mg/Kg		83	70 - 130	9	35
o-Xylene	0.100	0.08840		mg/Kg		88	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-8707-A-1-E MS

Matrix: Solid

Analysis Batch: 13721

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.0998	0.09388		mg/Kg		94	70 - 130
Toluene	<0.00201	U	0.0998	0.08902		mg/Kg		89	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-8707-A-1-E MS

Matrix: Solid

Analysis Batch: 13721

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00201	U	0.0998	0.08878		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1860		mg/Kg		93	70 - 130
o-Xylene	<0.00201	U	0.0998	0.09257		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-8707-A-1-F MSD

Matrix: Solid

Analysis Batch: 13721

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09171		mg/Kg		91	70 - 130	2	35
Toluene	<0.00201	U	0.100	0.08720		mg/Kg		87	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.100	0.08963		mg/Kg		90	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1884		mg/Kg		94	70 - 130	1	35
o-Xylene	<0.00201	U	0.100	0.09280		mg/Kg		92	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-13833/1-A

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13833

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 10:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 10:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 10:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	12/03/21 08:25	12/03/21 10:36	1
o-Terphenyl (Surr)	97		70 - 130	12/03/21 08:25	12/03/21 10:36	1

Lab Sample ID: LCS 880-13833/2-A

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	839.3		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	712.0		mg/Kg		71	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-13833/2-A

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13833

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	64	S1-	70 - 130
o-Terphenyl (Surr)	61	S1-	70 - 130

Lab Sample ID: LCSD 880-13833/3-A

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13833

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	831.2		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	800.1		mg/Kg		80	70 - 130	12	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	69	S1-	70 - 130
o-Terphenyl (Surr)	68	S1-	70 - 130

Lab Sample ID: 890-1658-1 MS

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: C-497 3.5'

Prep Type: Total/NA

Prep Batch: 13833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	821.0		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	827.5		mg/Kg		83	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	71		70 - 130
o-Terphenyl (Surr)	65	S1-	70 - 130

Lab Sample ID: 890-1658-1 MSD

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: C-497 3.5'

Prep Type: Total/NA

Prep Batch: 13833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	830.7		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	837.0		mg/Kg		84	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	72		70 - 130
o-Terphenyl (Surr)	65	S1-	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14188/1-A

Matrix: Solid

Analysis Batch: 14369

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/09/21 18:45	1

Lab Sample ID: LCS 880-14188/2-A

Matrix: Solid

Analysis Batch: 14369

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	274.2		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-14188/3-A

Matrix: Solid

Analysis Batch: 14369

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	267.7		mg/Kg		107	90 - 110	2	20

Lab Sample ID: 880-8765-B-1-D MS

Matrix: Solid

Analysis Batch: 14369

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	83.0	F1	249	372.2	F1	mg/Kg		116	90 - 110

Lab Sample ID: 880-8765-B-1-E MSD

Matrix: Solid

Analysis Batch: 14369

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	83.0	F1	249	391.6	F1	mg/Kg		124	90 - 110	5	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

GC VOA

Prep Batch: 13654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1658-1	C-497 3.5'	Total/NA	Solid	5035	
890-1658-2	C-485 2.5'	Total/NA	Solid	5035	
890-1658-3	C-525 3.5'	Total/NA	Solid	5035	
890-1658-4	C-1177 4.1'	Total/NA	Solid	5035	
890-1658-5	C-1183 4.1'	Total/NA	Solid	5035	
890-1658-6	C-1181 4.1	Total/NA	Solid	5035	
890-1658-7	C-1186 4.1'	Total/NA	Solid	5035	
MB 880-13654/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13654/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13654/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8707-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-8707-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 13721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1658-1	C-497 3.5'	Total/NA	Solid	8021B	13654
890-1658-2	C-485 2.5'	Total/NA	Solid	8021B	13654
890-1658-3	C-525 3.5'	Total/NA	Solid	8021B	13654
890-1658-4	C-1177 4.1'	Total/NA	Solid	8021B	13654
890-1658-5	C-1183 4.1'	Total/NA	Solid	8021B	13654
890-1658-6	C-1181 4.1	Total/NA	Solid	8021B	13654
890-1658-7	C-1186 4.1'	Total/NA	Solid	8021B	13654
MB 880-13654/5-A	Method Blank	Total/NA	Solid	8021B	13654
LCS 880-13654/1-A	Lab Control Sample	Total/NA	Solid	8021B	13654
LCSD 880-13654/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13654
880-8707-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	13654
880-8707-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	13654

Analysis Batch: 14228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1658-1	C-497 3.5'	Total/NA	Solid	Total BTEX	
890-1658-2	C-485 2.5'	Total/NA	Solid	Total BTEX	
890-1658-3	C-525 3.5'	Total/NA	Solid	Total BTEX	
890-1658-4	C-1177 4.1'	Total/NA	Solid	Total BTEX	
890-1658-5	C-1183 4.1'	Total/NA	Solid	Total BTEX	
890-1658-6	C-1181 4.1	Total/NA	Solid	Total BTEX	
890-1658-7	C-1186 4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 13833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1658-1	C-497 3.5'	Total/NA	Solid	8015NM Prep	
890-1658-2	C-485 2.5'	Total/NA	Solid	8015NM Prep	
890-1658-3	C-525 3.5'	Total/NA	Solid	8015NM Prep	
890-1658-4	C-1177 4.1'	Total/NA	Solid	8015NM Prep	
890-1658-5	C-1183 4.1'	Total/NA	Solid	8015NM Prep	
890-1658-6	C-1181 4.1	Total/NA	Solid	8015NM Prep	
890-1658-7	C-1186 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-13833/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13833/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

GC Semi VOA (Continued)

Prep Batch: 13833 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-13833/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1658-1 MS	C-497 3.5'	Total/NA	Solid	8015NM Prep	
890-1658-1 MSD	C-497 3.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1658-1	C-497 3.5'	Total/NA	Solid	8015B NM	13833
890-1658-2	C-485 2.5'	Total/NA	Solid	8015B NM	13833
890-1658-3	C-525 3.5'	Total/NA	Solid	8015B NM	13833
890-1658-4	C-1177 4.1'	Total/NA	Solid	8015B NM	13833
890-1658-5	C-1183 4.1'	Total/NA	Solid	8015B NM	13833
890-1658-6	C-1181 4.1	Total/NA	Solid	8015B NM	13833
890-1658-7	C-1186 4.1'	Total/NA	Solid	8015B NM	13833
MB 880-13833/1-A	Method Blank	Total/NA	Solid	8015B NM	13833
LCS 880-13833/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13833
LCSD 880-13833/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13833
890-1658-1 MS	C-497 3.5'	Total/NA	Solid	8015B NM	13833
890-1658-1 MSD	C-497 3.5'	Total/NA	Solid	8015B NM	13833

Analysis Batch: 14112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1658-1	C-497 3.5'	Total/NA	Solid	8015 NM	
890-1658-2	C-485 2.5'	Total/NA	Solid	8015 NM	
890-1658-3	C-525 3.5'	Total/NA	Solid	8015 NM	
890-1658-4	C-1177 4.1'	Total/NA	Solid	8015 NM	
890-1658-5	C-1183 4.1'	Total/NA	Solid	8015 NM	
890-1658-6	C-1181 4.1	Total/NA	Solid	8015 NM	
890-1658-7	C-1186 4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 14188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1658-1	C-497 3.5'	Soluble	Solid	DI Leach	
890-1658-2	C-485 2.5'	Soluble	Solid	DI Leach	
890-1658-3	C-525 3.5'	Soluble	Solid	DI Leach	
890-1658-4	C-1177 4.1'	Soluble	Solid	DI Leach	
890-1658-5	C-1183 4.1'	Soluble	Solid	DI Leach	
890-1658-6	C-1181 4.1	Soluble	Solid	DI Leach	
890-1658-7	C-1186 4.1'	Soluble	Solid	DI Leach	
MB 880-14188/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14188/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14188/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8765-B-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8765-B-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 14369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1658-1	C-497 3.5'	Soluble	Solid	300.0	14188
890-1658-2	C-485 2.5'	Soluble	Solid	300.0	14188
890-1658-3	C-525 3.5'	Soluble	Solid	300.0	14188

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

HPLC/IC (Continued)

Analysis Batch: 14369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1658-4	C-1177 4.1'	Soluble	Solid	300.0	14188
890-1658-5	C-1183 4.1'	Soluble	Solid	300.0	14188
890-1658-6	C-1181 4.1	Soluble	Solid	300.0	14188
890-1658-7	C-1186 4.1'	Soluble	Solid	300.0	14188
MB 880-14188/1-A	Method Blank	Soluble	Solid	300.0	14188
LCS 880-14188/2-A	Lab Control Sample	Soluble	Solid	300.0	14188
LCSD 880-14188/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14188
880-8765-B-1-D MS	Matrix Spike	Soluble	Solid	300.0	14188
880-8765-B-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14188

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Client Sample ID: C-497 3.5'

Lab Sample ID: 890-1658-1

Date Collected: 11/30/21 08:30

Matrix: Solid

Date Received: 11/30/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	13654	12/02/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13721	12/02/21 17:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 11:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14188	12/07/21 12:48	CA	XEN MID
Soluble	Analysis	300.0		1			14369	12/09/21 23:07	CH	XEN MID

Client Sample ID: C-485 2.5'

Lab Sample ID: 890-1658-2

Date Collected: 11/30/21 08:32

Matrix: Solid

Date Received: 11/30/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	13654	12/02/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13721	12/02/21 17:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 12:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	14188	12/07/21 12:48	CA	XEN MID
Soluble	Analysis	300.0		1			14369	12/09/21 23:18	CH	XEN MID

Client Sample ID: C-525 3.5'

Lab Sample ID: 890-1658-3

Date Collected: 11/30/21 08:33

Matrix: Solid

Date Received: 11/30/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	13654	12/02/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13721	12/02/21 17:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 13:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	14188	12/07/21 12:48	CA	XEN MID
Soluble	Analysis	300.0		1			14369	12/09/21 23:29	CH	XEN MID

Client Sample ID: C-1177 4.1'

Lab Sample ID: 890-1658-4

Date Collected: 11/30/21 14:30

Matrix: Solid

Date Received: 11/30/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	13654	12/02/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13721	12/02/21 18:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Client Sample ID: C-1177 4.1'

Lab Sample ID: 890-1658-4

Date Collected: 11/30/21 14:30

Matrix: Solid

Date Received: 11/30/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 13:28	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	14188	12/07/21 12:48	CA	XEN MID
Soluble	Analysis	300.0		1			14369	12/09/21 23:40	CH	XEN MID

Client Sample ID: C-1183 4.1'

Lab Sample ID: 890-1658-5

Date Collected: 11/30/21 14:31

Matrix: Solid

Date Received: 11/30/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	13654	12/02/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13721	12/02/21 18:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 13:50	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	14188	12/07/21 12:48	CA	XEN MID
Soluble	Analysis	300.0		1			14369	12/09/21 23:51	CH	XEN MID

Client Sample ID: C-1181 4.1

Lab Sample ID: 890-1658-6

Date Collected: 11/30/21 14:32

Matrix: Solid

Date Received: 11/30/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	13654	12/02/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13721	12/02/21 18:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 14:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	14188	12/07/21 12:48	CA	XEN MID
Soluble	Analysis	300.0		1			14369	12/10/21 00:02	CH	XEN MID

Client Sample ID: C-1186 4.1'

Lab Sample ID: 890-1658-7

Date Collected: 11/30/21 14:33

Matrix: Solid

Date Received: 11/30/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	13654	12/02/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13721	12/02/21 19:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 14:33	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Client Sample ID: C-1186 4.1'
Date Collected: 11/30/21 14:33
Date Received: 11/30/21 15:25

Lab Sample ID: 890-1658-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	14188	12/07/21 12:48	CA	XEN MID
Soluble	Analysis	300.0		1			14369	12/10/21 00:13	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1658-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1658-1	C-497 3.5'	Solid	11/30/21 08:30	11/30/21 15:25	3.5'
890-1658-2	C-485 2.5'	Solid	11/30/21 08:32	11/30/21 15:25	2.5'
890-1658-3	C-525 3.5'	Solid	11/30/21 08:33	11/30/21 15:25	3.5'
890-1658-4	C-1177 4.1'	Solid	11/30/21 14:30	11/30/21 15:25	4.1'
890-1658-5	C-1183 4.1'	Solid	11/30/21 14:31	11/30/21 15:25	4.1'
890-1658-6	C-1181 4.1	Solid	11/30/21 14:32	11/30/21 15:25	4.1'
890-1658-7	C-1186 4.1'	Solid	11/30/21 14:33	11/30/21 15:25	4.1'

12/10/2021

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1658-1

SDG Number:

Login Number: 1658

List Source: Eurofins Xenco, Carlsbad

List Number: 1

Creator: Olivas, Nathaniel

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1658-1

SDG Number:

Login Number: 1658

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland

List Creation: 12/02/21 11:50 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1665-1
Client Project/Site: Palmio AST

For:

Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/13/2021 12:18:52 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1665-1

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Job ID: 890-1665-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1665-1

Comments

No additional comments.

Receipt

The samples were received on 12/1/2021 3:38 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 24.6° C.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike (MS) and matrix spike duplicate (MSD) recoveries for preparation batch 880-14190 and analytical batch 880-14371 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: C-1144 4.1' (890-1665-1), C-1141 4.1' (890-1665-4), C-1140 4.1' (890-1665-5), C-1118 3.5' (890-1665-6), C-1121 3.5' (890-1665-7), (890-1665-A-1-G MS) and (890-1665-A-1-H MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Client Sample ID: C-1144 4.1'

Lab Sample ID: 890-1665-1

Date Collected: 12/01/21 10:10

Matrix: Solid

Date Received: 12/01/21 15:38

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 18:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 18:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 18:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/03/21 08:00	12/03/21 18:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 18:26	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/03/21 08:00	12/03/21 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/03/21 08:00	12/03/21 18:26	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/03/21 08:00	12/03/21 18:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/08/21 12:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/08/21 13:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 17:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 17:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130	12/03/21 15:30	12/04/21 17:58	1
o-Terphenyl (Surr)	91		70 - 130	12/03/21 15:30	12/04/21 17:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1290		4.96	mg/Kg			12/10/21 16:16	1

Client Sample ID: C-1143 4.1'

Lab Sample ID: 890-1665-2

Date Collected: 12/01/21 10:11

Matrix: Solid

Date Received: 12/01/21 15:38

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 18:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 18:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 18:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/03/21 08:00	12/03/21 18:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 18:47	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/03/21 08:00	12/03/21 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/03/21 08:00	12/03/21 18:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Client Sample ID: C-1143 4.1'

Lab Sample ID: 890-1665-2

Date Collected: 12/01/21 10:11

Matrix: Solid

Date Received: 12/01/21 15:38

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	12/03/21 08:00	12/03/21 18:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/08/21 12:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/08/21 13:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 18:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 18:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 18:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			12/03/21 15:30	12/04/21 18:18	1
o-Terphenyl (Surr)	104		70 - 130			12/03/21 15:30	12/04/21 18:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	943		5.04	mg/Kg			12/10/21 15:54	1

Client Sample ID: C-1142 4.1'

Lab Sample ID: 890-1665-3

Date Collected: 12/01/21 10:12

Matrix: Solid

Date Received: 12/01/21 15:38

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/03/21 08:00	12/03/21 19:07	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/03/21 08:00	12/03/21 19:07	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/03/21 08:00	12/03/21 19:07	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/03/21 08:00	12/03/21 19:07	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/03/21 08:00	12/03/21 19:07	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/03/21 08:00	12/03/21 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	12/03/21 08:00	12/03/21 19:07	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/03/21 08:00	12/03/21 19:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/08/21 12:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/08/21 13:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Client Sample ID: C-1142 4.1'

Lab Sample ID: 890-1665-3

Date Collected: 12/01/21 10:12

Matrix: Solid

Date Received: 12/01/21 15:38

Sample Depth: 4.1'

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/03/21 15:30	12/04/21 18:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/03/21 15:30	12/04/21 18:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/03/21 15:30	12/04/21 18:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			12/03/21 15:30	12/04/21 18:38	1
o-Terphenyl (Surr)	91		70 - 130			12/03/21 15:30	12/04/21 18:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	620		4.98	mg/Kg			12/10/21 16:05	1

Client Sample ID: C-1141 4.1'

Lab Sample ID: 890-1665-4

Date Collected: 12/01/21 10:13

Matrix: Solid

Date Received: 12/01/21 15:38

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/03/21 08:00	12/03/21 19:27	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/03/21 08:00	12/03/21 19:27	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/03/21 08:00	12/03/21 19:27	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/03/21 08:00	12/03/21 19:27	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/03/21 08:00	12/03/21 19:27	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/03/21 08:00	12/03/21 19:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			12/03/21 08:00	12/03/21 19:27	1
1,4-Difluorobenzene (Surr)	94		70 - 130			12/03/21 08:00	12/03/21 19:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/08/21 12:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/08/21 13:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/03/21 15:30	12/04/21 18:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/03/21 15:30	12/04/21 18:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/03/21 15:30	12/04/21 18:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			12/03/21 15:30	12/04/21 18:58	1
o-Terphenyl (Surr)	94		70 - 130			12/03/21 15:30	12/04/21 18:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Client Sample ID: C-1141 4.1'

Lab Sample ID: 890-1665-4

Date Collected: 12/01/21 10:13

Matrix: Solid

Date Received: 12/01/21 15:38

Sample Depth: 4.1'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406		4.95	mg/Kg			12/10/21 16:49	1

Client Sample ID: C-1140 4.1'

Lab Sample ID: 890-1665-5

Date Collected: 12/01/21 10:14

Matrix: Solid

Date Received: 12/01/21 15:38

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/03/21 08:00	12/03/21 19:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/03/21 08:00	12/03/21 19:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/03/21 08:00	12/03/21 19:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/03/21 08:00	12/03/21 19:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/03/21 08:00	12/03/21 19:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/03/21 08:00	12/03/21 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			12/03/21 08:00	12/03/21 19:48	1
1,4-Difluorobenzene (Surr)	91		70 - 130			12/03/21 08:00	12/03/21 19:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/08/21 12:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/08/21 13:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 19:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 19:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 19:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			12/03/21 15:30	12/04/21 19:19	1
o-Terphenyl (Surr)	93		70 - 130			12/03/21 15:30	12/04/21 19:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	452		5.01	mg/Kg			12/10/21 16:59	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Client Sample ID: C-1118 3.5'

Lab Sample ID: 890-1665-6

Date Collected: 12/01/21 12:31

Matrix: Solid

Date Received: 12/01/21 15:38

Sample Depth: 3.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 20:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 20:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 20:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/03/21 08:00	12/03/21 20:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 20:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/03/21 08:00	12/03/21 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/03/21 08:00	12/03/21 20:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/03/21 08:00	12/03/21 20:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/08/21 12:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/08/21 13:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 19:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 19:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	12/03/21 15:30	12/04/21 19:39	1
o-Terphenyl (Surr)	100		70 - 130	12/03/21 15:30	12/04/21 19:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	868		4.97	mg/Kg			12/10/21 17:32	1

Client Sample ID: C-1121 3.5'

Lab Sample ID: 890-1665-7

Date Collected: 12/01/21 12:34

Matrix: Solid

Date Received: 12/01/21 15:38

Sample Depth: 3.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/03/21 08:00	12/03/21 20:29	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/03/21 08:00	12/03/21 20:29	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/03/21 08:00	12/03/21 20:29	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/03/21 08:00	12/03/21 20:29	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/03/21 08:00	12/03/21 20:29	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/03/21 08:00	12/03/21 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/03/21 08:00	12/03/21 20:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Client Sample ID: C-1121 3.5'

Lab Sample ID: 890-1665-7

Date Collected: 12/01/21 12:34

Matrix: Solid

Date Received: 12/01/21 15:38

Sample Depth: 3.5'

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	12/03/21 08:00	12/03/21 20:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/08/21 12:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/08/21 13:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/03/21 15:30	12/04/21 19:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/03/21 15:30	12/04/21 19:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/03/21 15:30	12/04/21 19:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			12/03/21 15:30	12/04/21 19:59	1
o-Terphenyl (Surr)	91		70 - 130			12/03/21 15:30	12/04/21 19:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		5.00	mg/Kg			12/10/21 17:43	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-8912-A-3-B MS	Matrix Spike	116	93
880-8912-A-3-C MSD	Matrix Spike Duplicate	112	93
890-1665-1	C-1144 4.1'	124	102
890-1665-2	C-1143 4.1'	120	96
890-1665-3	C-1142 4.1'	128	102
890-1665-4	C-1141 4.1'	131 S1+	94
890-1665-5	C-1140 4.1'	129	91
890-1665-6	C-1118 3.5'	97	89
890-1665-7	C-1121 3.5'	114	93
LCS 880-13830/1-A	Lab Control Sample	107	95
LCSD 880-13830/2-A	Lab Control Sample Dup	122	102
MB 880-13830/5-A	Method Blank	122	107

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-8942-A-1-B MS	Matrix Spike	78	80
880-8942-A-1-C MSD	Matrix Spike Duplicate	78	81
890-1665-1	C-1144 4.1'	77	91
890-1665-2	C-1143 4.1'	87	104
890-1665-3	C-1142 4.1'	78	91
890-1665-4	C-1141 4.1'	80	94
890-1665-5	C-1140 4.1'	80	93
890-1665-6	C-1118 3.5'	84	100
890-1665-7	C-1121 3.5'	77	91
LCS 880-13892/2-A	Lab Control Sample	81	82
LCSD 880-13892/3-A	Lab Control Sample Dup	83	89
MB 880-13892/1-A	Method Blank	83	101

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13830/5-A

Matrix: Solid

Analysis Batch: 13832

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13830

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 11:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 11:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 11:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/03/21 08:00	12/03/21 11:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/03/21 08:00	12/03/21 11:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/03/21 08:00	12/03/21 11:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	12/03/21 08:00	12/03/21 11:18	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/03/21 08:00	12/03/21 11:18	1

Lab Sample ID: LCS 880-13830/1-A

Matrix: Solid

Analysis Batch: 13832

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08732		mg/Kg		87	70 - 130
Toluene	0.100	0.08941		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09497		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1859		mg/Kg		93	70 - 130
o-Xylene	0.100	0.08845		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-13830/2-A

Matrix: Solid

Analysis Batch: 13832

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13830

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09917		mg/Kg		99	70 - 130	13	35
Toluene	0.100	0.1037		mg/Kg		104	70 - 130	15	35
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2084		mg/Kg		104	70 - 130	11	35
o-Xylene	0.100	0.1012		mg/Kg		101	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-8912-A-3-B MS

Matrix: Solid

Analysis Batch: 13832

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13830

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.07895		mg/Kg		79	70 - 130
Toluene	<0.00199	U	0.100	0.07527		mg/Kg		75	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-8912-A-3-B MS

Matrix: Solid

Analysis Batch: 13832

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13830

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U	0.100	0.07124		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1409		mg/Kg		70	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.06823	F1	mg/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-8912-A-3-C MSD

Matrix: Solid

Analysis Batch: 13832

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13830

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1	0.0996	0.06900	F1	mg/Kg		69	70 - 130	13	35
Toluene	<0.00199	U	0.0996	0.07015		mg/Kg		70	70 - 130	7	35
Ethylbenzene	<0.00199	U	0.0996	0.06927		mg/Kg		70	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1307	F1	mg/Kg		66	70 - 130	7	35
o-Xylene	<0.00199	U F1	0.0996	0.06413	F1	mg/Kg		64	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-13892/1-A

Matrix: Solid

Analysis Batch: 13912

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13892

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 11:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 11:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 11:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130	12/03/21 15:30	12/04/21 11:22	1
o-Terphenyl (Surr)	101		70 - 130	12/03/21 15:30	12/04/21 11:22	1

Lab Sample ID: LCS 880-13892/2-A

Matrix: Solid

Analysis Batch: 13912

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1002		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	785.2		mg/Kg		79	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-13892/2-A

Matrix: Solid

Analysis Batch: 13912

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13892

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	81		70 - 130
o-Terphenyl (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-13892/3-A

Matrix: Solid

Analysis Batch: 13912

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13892

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	944.2		mg/Kg		94	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	719.4		mg/Kg		72	70 - 130	9	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	83		70 - 130
o-Terphenyl (Surr)	89		70 - 130

Lab Sample ID: 880-8942-A-1-B MS

Matrix: Solid

Analysis Batch: 13912

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	876.5		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	822.0		mg/Kg		80	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	78		70 - 130
o-Terphenyl (Surr)	80		70 - 130

Lab Sample ID: 880-8942-A-1-C MSD

Matrix: Solid

Analysis Batch: 13912

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	906.4		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	851.8		mg/Kg		83	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	78		70 - 130
o-Terphenyl (Surr)	81		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14190/1-A

Matrix: Solid

Analysis Batch: 14371

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/10/21 13:10	1

Lab Sample ID: LCS 880-14190/2-A

Matrix: Solid

Analysis Batch: 14371

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	274.3		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-14190/3-A

Matrix: Solid

Analysis Batch: 14371

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	265.9		mg/Kg		106	90 - 110	3	20

Lab Sample ID: 890-1665-1 MS

Matrix: Solid

Analysis Batch: 14371

Client Sample ID: C-1144 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1290		248	1448	4	mg/Kg		66	90 - 110

Lab Sample ID: 890-1665-1 MSD

Matrix: Solid

Analysis Batch: 14371

Client Sample ID: C-1144 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1290		248	1560	E 4	mg/Kg		111	90 - 110	NC	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

GC VOA

Prep Batch: 13830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1665-1	C-1144 4.1'	Total/NA	Solid	5035	
890-1665-2	C-1143 4.1'	Total/NA	Solid	5035	
890-1665-3	C-1142 4.1'	Total/NA	Solid	5035	
890-1665-4	C-1141 4.1'	Total/NA	Solid	5035	
890-1665-5	C-1140 4.1'	Total/NA	Solid	5035	
890-1665-6	C-1118 3.5'	Total/NA	Solid	5035	
890-1665-7	C-1121 3.5'	Total/NA	Solid	5035	
MB 880-13830/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13830/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13830/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8912-A-3-B MS	Matrix Spike	Total/NA	Solid	5035	
880-8912-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 13832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1665-1	C-1144 4.1'	Total/NA	Solid	8021B	13830
890-1665-2	C-1143 4.1'	Total/NA	Solid	8021B	13830
890-1665-3	C-1142 4.1'	Total/NA	Solid	8021B	13830
890-1665-4	C-1141 4.1'	Total/NA	Solid	8021B	13830
890-1665-5	C-1140 4.1'	Total/NA	Solid	8021B	13830
890-1665-6	C-1118 3.5'	Total/NA	Solid	8021B	13830
890-1665-7	C-1121 3.5'	Total/NA	Solid	8021B	13830
MB 880-13830/5-A	Method Blank	Total/NA	Solid	8021B	13830
LCS 880-13830/1-A	Lab Control Sample	Total/NA	Solid	8021B	13830
LCSD 880-13830/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13830
880-8912-A-3-B MS	Matrix Spike	Total/NA	Solid	8021B	13830
880-8912-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	13830

Analysis Batch: 14295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1665-1	C-1144 4.1'	Total/NA	Solid	Total BTEX	
890-1665-2	C-1143 4.1'	Total/NA	Solid	Total BTEX	
890-1665-3	C-1142 4.1'	Total/NA	Solid	Total BTEX	
890-1665-4	C-1141 4.1'	Total/NA	Solid	Total BTEX	
890-1665-5	C-1140 4.1'	Total/NA	Solid	Total BTEX	
890-1665-6	C-1118 3.5'	Total/NA	Solid	Total BTEX	
890-1665-7	C-1121 3.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 13892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1665-1	C-1144 4.1'	Total/NA	Solid	8015NM Prep	
890-1665-2	C-1143 4.1'	Total/NA	Solid	8015NM Prep	
890-1665-3	C-1142 4.1'	Total/NA	Solid	8015NM Prep	
890-1665-4	C-1141 4.1'	Total/NA	Solid	8015NM Prep	
890-1665-5	C-1140 4.1'	Total/NA	Solid	8015NM Prep	
890-1665-6	C-1118 3.5'	Total/NA	Solid	8015NM Prep	
890-1665-7	C-1121 3.5'	Total/NA	Solid	8015NM Prep	
MB 880-13892/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13892/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

GC Semi VOA (Continued)

Prep Batch: 13892 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-13892/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-8942-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-8942-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1665-1	C-1144 4.1'	Total/NA	Solid	8015B NM	13892
890-1665-2	C-1143 4.1'	Total/NA	Solid	8015B NM	13892
890-1665-3	C-1142 4.1'	Total/NA	Solid	8015B NM	13892
890-1665-4	C-1141 4.1'	Total/NA	Solid	8015B NM	13892
890-1665-5	C-1140 4.1'	Total/NA	Solid	8015B NM	13892
890-1665-6	C-1118 3.5'	Total/NA	Solid	8015B NM	13892
890-1665-7	C-1121 3.5'	Total/NA	Solid	8015B NM	13892
MB 880-13892/1-A	Method Blank	Total/NA	Solid	8015B NM	13892
LCS 880-13892/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13892
LCSD 880-13892/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13892
880-8942-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	13892
880-8942-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13892

Analysis Batch: 14296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1665-1	C-1144 4.1'	Total/NA	Solid	8015 NM	
890-1665-2	C-1143 4.1'	Total/NA	Solid	8015 NM	
890-1665-3	C-1142 4.1'	Total/NA	Solid	8015 NM	
890-1665-4	C-1141 4.1'	Total/NA	Solid	8015 NM	
890-1665-5	C-1140 4.1'	Total/NA	Solid	8015 NM	
890-1665-6	C-1118 3.5'	Total/NA	Solid	8015 NM	
890-1665-7	C-1121 3.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 14190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1665-1	C-1144 4.1'	Soluble	Solid	DI Leach	
890-1665-2	C-1143 4.1'	Soluble	Solid	DI Leach	
890-1665-3	C-1142 4.1'	Soluble	Solid	DI Leach	
890-1665-4	C-1141 4.1'	Soluble	Solid	DI Leach	
890-1665-5	C-1140 4.1'	Soluble	Solid	DI Leach	
890-1665-6	C-1118 3.5'	Soluble	Solid	DI Leach	
890-1665-7	C-1121 3.5'	Soluble	Solid	DI Leach	
MB 880-14190/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14190/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14190/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1665-1 MS	C-1144 4.1'	Soluble	Solid	DI Leach	
890-1665-1 MSD	C-1144 4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 14371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1665-1	C-1144 4.1'	Soluble	Solid	300.0	14190
890-1665-2	C-1143 4.1'	Soluble	Solid	300.0	14190
890-1665-3	C-1142 4.1'	Soluble	Solid	300.0	14190

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

HPLC/IC (Continued)

Analysis Batch: 14371 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1665-4	C-1141 4.1'	Soluble	Solid	300.0	14190
890-1665-5	C-1140 4.1'	Soluble	Solid	300.0	14190
890-1665-6	C-1118 3.5'	Soluble	Solid	300.0	14190
890-1665-7	C-1121 3.5'	Soluble	Solid	300.0	14190
MB 880-14190/1-A	Method Blank	Soluble	Solid	300.0	14190
LCS 880-14190/2-A	Lab Control Sample	Soluble	Solid	300.0	14190
LCSD 880-14190/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14190
890-1665-1 MS	C-1144 4.1'	Soluble	Solid	300.0	14190
890-1665-1 MSD	C-1144 4.1'	Soluble	Solid	300.0	14190

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Client Sample ID: C-1144 4.1'

Lab Sample ID: 890-1665-1

Date Collected: 12/01/21 10:10

Matrix: Solid

Date Received: 12/01/21 15:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	13830	12/03/21 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13832	12/03/21 18:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14296	12/08/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13912	12/04/21 17:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	14190	12/07/21 12:55	CA	XEN MID
Soluble	Analysis	300.0		1			14371	12/10/21 16:16	SC	XEN MID

Client Sample ID: C-1143 4.1'

Lab Sample ID: 890-1665-2

Date Collected: 12/01/21 10:11

Matrix: Solid

Date Received: 12/01/21 15:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	13830	12/03/21 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13832	12/03/21 18:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14296	12/08/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13912	12/04/21 18:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	14190	12/07/21 12:55	CA	XEN MID
Soluble	Analysis	300.0		1			14371	12/10/21 15:54	SC	XEN MID

Client Sample ID: C-1142 4.1'

Lab Sample ID: 890-1665-3

Date Collected: 12/01/21 10:12

Matrix: Solid

Date Received: 12/01/21 15:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	13830	12/03/21 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13832	12/03/21 19:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14296	12/08/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13912	12/04/21 18:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	14190	12/07/21 12:55	CA	XEN MID
Soluble	Analysis	300.0		1			14371	12/10/21 16:05	SC	XEN MID

Client Sample ID: C-1141 4.1'

Lab Sample ID: 890-1665-4

Date Collected: 12/01/21 10:13

Matrix: Solid

Date Received: 12/01/21 15:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	13830	12/03/21 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13832	12/03/21 19:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Client Sample ID: C-1141 4.1'

Date Collected: 12/01/21 10:13

Date Received: 12/01/21 15:38

Lab Sample ID: 890-1665-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			14296	12/08/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13912	12/04/21 18:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14190	12/07/21 12:55	CA	XEN MID
Soluble	Analysis	300.0		1			14371	12/10/21 16:49	SC	XEN MID

Client Sample ID: C-1140 4.1'

Date Collected: 12/01/21 10:14

Date Received: 12/01/21 15:38

Lab Sample ID: 890-1665-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	13830	12/03/21 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13832	12/03/21 19:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14296	12/08/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13912	12/04/21 19:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	14190	12/07/21 12:55	CA	XEN MID
Soluble	Analysis	300.0		1			14371	12/10/21 16:59	SC	XEN MID

Client Sample ID: C-1118 3.5'

Date Collected: 12/01/21 12:31

Date Received: 12/01/21 15:38

Lab Sample ID: 890-1665-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	13830	12/03/21 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13832	12/03/21 20:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14296	12/08/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13912	12/04/21 19:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	14190	12/07/21 12:55	CA	XEN MID
Soluble	Analysis	300.0		1			14371	12/10/21 17:32	SC	XEN MID

Client Sample ID: C-1121 3.5'

Date Collected: 12/01/21 12:34

Date Received: 12/01/21 15:38

Lab Sample ID: 890-1665-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	13830	12/03/21 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13832	12/03/21 20:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14296	12/08/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13912	12/04/21 19:59	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Client Sample ID: C-1121 3.5'
Date Collected: 12/01/21 12:34
Date Received: 12/01/21 15:38

Lab Sample ID: 890-1665-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	14190	12/07/21 12:55	CA	XEN MID
Soluble	Analysis	300.0		1			14371	12/10/21 17:43	SC	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1665-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1665-1	C-1144 4.1'	Solid	12/01/21 10:10	12/01/21 15:38	4.1'
890-1665-2	C-1143 4.1'	Solid	12/01/21 10:11	12/01/21 15:38	4.1'
890-1665-3	C-1142 4.1'	Solid	12/01/21 10:12	12/01/21 15:38	4.1'
890-1665-4	C-1141 4.1'	Solid	12/01/21 10:13	12/01/21 15:38	4.1'
890-1665-5	C-1140 4.1'	Solid	12/01/21 10:14	12/01/21 15:38	4.1'
890-1665-6	C-1118 3.5'	Solid	12/01/21 12:31	12/01/21 15:38	3.5'
890-1665-7	C-1121 3.5'	Solid	12/01/21 12:34	12/01/21 15:38	3.5'

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Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1665-1

SDG Number:

Login Number: 1665

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1665-1

SDG Number:

Login Number: 1665**List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Xenco, Midland****List Creation: 12/03/21 12:45 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1674-1
Client Project/Site: Palmio Ast

For:

Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in cursive script that reads "Holly Taylor".

Authorized for release by:
12/10/2021 4:45:36 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Laboratory Job ID: 890-1674-1

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Job ID: 890-1674-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1674-1****Comments**

No additional comments.

Receipt

The samples were received on 12/2/2021 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.8° C.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-14192 and analytical batch 880-14373 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Client Sample ID: C-1130 3.5'

Lab Sample ID: 890-1674-1

Date Collected: 12/02/21 11:31

Matrix: Solid

Date Received: 12/02/21 15:05

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 10:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 10:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 10:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/06/21 07:34	12/06/21 10:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 10:58	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/06/21 07:34	12/06/21 10:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	12/06/21 07:34	12/06/21 10:58	1
1,4-Difluorobenzene (Surr)	82		70 - 130	12/06/21 07:34	12/06/21 10:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/09/21 14:45	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/07/21 13:23	12/08/21 03:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/07/21 13:23	12/08/21 03:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/07/21 13:23	12/08/21 03:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	12/07/21 13:23	12/08/21 03:26	1
o-Terphenyl (Surr)	129		70 - 130	12/07/21 13:23	12/08/21 03:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	575		5.03	mg/Kg			12/10/21 08:13	1

Client Sample ID: C-1131 3.5'

Lab Sample ID: 890-1674-2

Date Collected: 12/02/21 11:32

Matrix: Solid

Date Received: 12/02/21 15:05

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/06/21 07:34	12/06/21 11:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/06/21 07:34	12/06/21 11:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/06/21 07:34	12/06/21 11:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/06/21 07:34	12/06/21 11:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/06/21 07:34	12/06/21 11:19	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/06/21 07:34	12/06/21 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/06/21 07:34	12/06/21 11:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Client Sample ID: C-1131 3.5'

Lab Sample ID: 890-1674-2

Date Collected: 12/02/21 11:32

Matrix: Solid

Date Received: 12/02/21 15:05

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	12/06/21 07:34	12/06/21 11:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/09/21 14:45	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/08/21 04:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/08/21 04:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/08/21 04:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			12/07/21 13:23	12/08/21 04:13	1
o-Terphenyl (Surr)	113		70 - 130			12/07/21 13:23	12/08/21 04:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	494		5.04	mg/Kg			12/10/21 08:20	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1674-1	C-1130 3.5'	122	82
890-1674-1 MS	C-1130 3.5'	103	103
890-1674-1 MSD	C-1130 3.5'	105	103
890-1674-2	C-1131 3.5'	104	107
LCS 880-13933/1-A	Lab Control Sample	103	95
LCSD 880-13933/2-A	Lab Control Sample Dup	104	98
MB 880-13933/5-A	Method Blank	121	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1666-A-121-F MS	Matrix Spike	95	89
890-1666-A-121-G MSD	Matrix Spike Duplicate	92	88
890-1674-1	C-1130 3.5'	112	129
890-1674-2	C-1131 3.5'	98	113
LCS 880-14199/2-A	Lab Control Sample	102	108
LCSD 880-14199/3-A	Lab Control Sample Dup	100	106
MB 880-14199/1-A	Method Blank	98	119

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13933/5-A

Matrix: Solid

Analysis Batch: 13934

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13933

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 10:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 10:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 10:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/06/21 07:34	12/06/21 10:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 10:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/06/21 07:34	12/06/21 10:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/06/21 07:34	12/06/21 10:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/06/21 07:34	12/06/21 10:37	1

Lab Sample ID: LCS 880-13933/1-A

Matrix: Solid

Analysis Batch: 13934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08479		mg/Kg		85	70 - 130
Toluene	0.100	0.08135		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.07966		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1705		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08369		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-13933/2-A

Matrix: Solid

Analysis Batch: 13934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13933

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08285		mg/Kg		83	70 - 130	2	35
Toluene	0.100	0.07932		mg/Kg		79	70 - 130	3	35
Ethylbenzene	0.100	0.07934		mg/Kg		79	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1692		mg/Kg		85	70 - 130	1	35
o-Xylene	0.100	0.08141		mg/Kg		81	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-1674-1 MSD

Matrix: Solid

Analysis Batch: 13934

Client Sample ID: C-1130 3.5'

Prep Type: Total/NA

Prep Batch: 13933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.08381		mg/Kg					
Toluene	<0.00200	U	0.0994	0.07873		mg/Kg					

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1674-1 MSD

Matrix: Solid

Analysis Batch: 13934

Client Sample ID: C-1130 3.5'

Prep Type: Total/NA

Prep Batch: 13933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00200	U	0.0994	0.07978		mg/Kg					
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1673		mg/Kg					
o-Xylene	<0.00200	U	0.0994	0.08334		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1674-1 MS

Matrix: Solid

Analysis Batch: 13934

Client Sample ID: C-1130 3.5'

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-14199/1-A

Matrix: Solid

Analysis Batch: 14177

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14199

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/07/21 22:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/07/21 22:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/07/21 22:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	12/07/21 13:23	12/07/21 22:04	1
o-Terphenyl (Surr)	119		70 - 130	12/07/21 13:23	12/07/21 22:04	1

Lab Sample ID: LCS 880-14199/2-A

Matrix: Solid

Analysis Batch: 14177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	937.9		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	918.5		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	108		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-14199/3-A

Matrix: Solid

Analysis Batch: 14177

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	921.5		mg/Kg		92	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	906.6		mg/Kg		91	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	100		70 - 130						
o-Terphenyl (Surr)	106		70 - 130						

Lab Sample ID: 890-1666-A-121-F MS

Matrix: Solid

Analysis Batch: 14177

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	945.6		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1211		mg/Kg		121	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	95		70 - 130								
o-Terphenyl (Surr)	89		70 - 130								

Lab Sample ID: 890-1666-A-121-G MSD

Matrix: Solid

Analysis Batch: 14177

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	966.4		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1204		mg/Kg		121	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	92		70 - 130								
o-Terphenyl (Surr)	88		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14192/1-A

Matrix: Solid

Analysis Batch: 14373

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/10/21 05:00	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-14192/2-A

Matrix: Solid

Analysis Batch: 14373

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	267.9		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-14192/3-A

Matrix: Solid

Analysis Batch: 14373

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	270.1		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 880-8898-A-8-D MS

Matrix: Solid

Analysis Batch: 14373

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	237	F1	248	525.8	F1	mg/Kg		116	90 - 110

Lab Sample ID: 880-8898-A-8-E MSD

Matrix: Solid

Analysis Batch: 14373

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	237	F1	248	526.6	F1	mg/Kg		117	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

GC VOA

Prep Batch: 13933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1674-1	C-1130 3.5'	Total/NA	Solid	5035	
890-1674-2	C-1131 3.5'	Total/NA	Solid	5035	
MB 880-13933/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13933/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13933/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1674-1 MSD	C-1130 3.5'	Total/NA	Solid	5035	

Analysis Batch: 13934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1674-1	C-1130 3.5'	Total/NA	Solid	8021B	13933
890-1674-2	C-1131 3.5'	Total/NA	Solid	8021B	13933
MB 880-13933/5-A	Method Blank	Total/NA	Solid	8021B	13933
LCS 880-13933/1-A	Lab Control Sample	Total/NA	Solid	8021B	13933
LCSD 880-13933/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13933
890-1674-1 MS	C-1130 3.5'	Total/NA	Solid	8021B	
890-1674-1 MSD	C-1130 3.5'	Total/NA	Solid	8021B	13933

Analysis Batch: 14350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1674-1	C-1130 3.5'	Total/NA	Solid	Total BTEX	
890-1674-2	C-1131 3.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 14177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1674-1	C-1130 3.5'	Total/NA	Solid	8015B NM	14199
890-1674-2	C-1131 3.5'	Total/NA	Solid	8015B NM	14199
MB 880-14199/1-A	Method Blank	Total/NA	Solid	8015B NM	14199
LCS 880-14199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14199
LCSD 880-14199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14199
890-1666-A-121-F MS	Matrix Spike	Total/NA	Solid	8015B NM	14199
890-1666-A-121-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14199

Prep Batch: 14199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1674-1	C-1130 3.5'	Total/NA	Solid	8015NM Prep	
890-1674-2	C-1131 3.5'	Total/NA	Solid	8015NM Prep	
MB 880-14199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1666-A-121-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1666-A-121-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 14395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1674-1	C-1130 3.5'	Total/NA	Solid	8015 NM	
890-1674-2	C-1131 3.5'	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

HPLC/IC

Leach Batch: 14192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1674-1	C-1130 3.5'	Soluble	Solid	DI Leach	
890-1674-2	C-1131 3.5'	Soluble	Solid	DI Leach	
MB 880-14192/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14192/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14192/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8898-A-8-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8898-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 14373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1674-1	C-1130 3.5'	Soluble	Solid	300.0	14192
890-1674-2	C-1131 3.5'	Soluble	Solid	300.0	14192
MB 880-14192/1-A	Method Blank	Soluble	Solid	300.0	14192
LCS 880-14192/2-A	Lab Control Sample	Soluble	Solid	300.0	14192
LCSD 880-14192/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14192
880-8898-A-8-D MS	Matrix Spike	Soluble	Solid	300.0	14192
880-8898-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14192

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Client Sample ID: C-1130 3.5'

Lab Sample ID: 890-1674-1

Date Collected: 12/02/21 11:31

Matrix: Solid

Date Received: 12/02/21 15:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 10:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14395	12/09/21 14:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14199	12/07/21 13:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14177	12/08/21 03:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	14192	12/07/21 12:59	CA	XEN MID
Soluble	Analysis	300.0		1			14373	12/10/21 08:13	CH	XEN MID

Client Sample ID: C-1131 3.5'

Lab Sample ID: 890-1674-2

Date Collected: 12/02/21 11:32

Matrix: Solid

Date Received: 12/02/21 15:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 11:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14395	12/09/21 14:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14199	12/07/21 13:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14177	12/08/21 04:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	14192	12/07/21 12:59	CA	XEN MID
Soluble	Analysis	300.0		1			14373	12/10/21 08:20	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1674-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1674-1	C-1130 3.5'	Solid	12/02/21 11:31	12/02/21 15:05	3.5
890-1674-2	C-1131 3.5'	Solid	12/02/21 11:32	12/02/21 15:05	3.5

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- 12
- 13
- 14

Varson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Cooling in Pile

CHAIN-OF-CUSTODY

No. 2317

DATE: 12-2-21

PAGE 1 OF 1

PO#:

LAB WORK ORDER#:

PROJECT LOCATION OR NAME: *Palm A St*

LAI PROJECT #: 21-0105-02

COLLECTOR: TP

Data Reported to

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State
MST/ NM

Field Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ NaOH

ICE

UNPRESSERVED

ANALYSES

BTEX MTBE

TPH 418-1

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PCBS

TCLP - METALS (RCRA)

TCLP - PEST

TOTAL METALS (RCRA)

LEAD - TOTAL

RCL

TDS

pH

% MOISTURE

FLASHPOINT

OTHER LIST

TCCLP

CYANIDE

PECHLORATE

ANIONS

ALKALINITY

FIELD NOTES

890-1674 Chain of Custody



TOTAL 2

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

1 DAY

RECEIVING TEMP

THERM#

NOT USED

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

2 DAY

CUSTODY SEALS - BROKEN

CARRIER BILL #

STANDARD DELIVERED

LABORATORY

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1674-1

SDG Number:

Login Number: 1674**List Number: 1****Creator: Olivas, Nathaniel****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1674-1

SDG Number:

Login Number: 1674

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 12/06/21 08:21 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-8945-1
Client Project/Site: Palmio AST

For:

Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/13/2021 3:07:52 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-8945-1

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Midland

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Job ID: 880-8945-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-8945-1

Receipt

The samples were received on 12/3/2021 3:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.2°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1117 4.1'

Lab Sample ID: 880-8945-1

Date Collected: 12/03/21 10:00

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/06/21 07:34	12/06/21 14:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/06/21 07:34	12/06/21 14:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/06/21 07:34	12/06/21 14:02	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		12/06/21 07:34	12/06/21 14:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/06/21 07:34	12/06/21 14:02	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/06/21 07:34	12/06/21 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	12/06/21 07:34	12/06/21 14:02	1
1,4-Difluorobenzene (Surr)	109		70 - 130	12/06/21 07:34	12/06/21 14:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/09/21 11:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 14:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 14:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	12/08/21 08:50	12/08/21 14:36	1
o-Terphenyl (Surr)	112		70 - 130	12/08/21 08:50	12/08/21 14:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	966		5.00	mg/Kg			12/10/21 23:11	1

Client Sample ID: C1119 4.1'

Lab Sample ID: 880-8945-2

Date Collected: 12/03/21 10:01

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 15:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 15:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 15:24	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/06/21 07:34	12/06/21 15:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 15:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/06/21 07:34	12/06/21 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/06/21 07:34	12/06/21 15:24	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/06/21 07:34	12/06/21 15:24	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1119 4.1'

Lab Sample ID: 880-8945-2

Date Collected: 12/03/21 10:01

Matrix: Solid

Date Received: 12/03/21 15:21

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/09/21 11:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 14:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 14:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 14:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			12/08/21 08:50	12/08/21 14:56	1
o-Terphenyl (Surr)	115		70 - 130			12/08/21 08:50	12/08/21 14:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	773	F1	24.8	mg/Kg			12/10/21 23:19	5

Client Sample ID: C1120 4.1'

Lab Sample ID: 880-8945-3

Date Collected: 12/03/21 10:02

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 15:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 15:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 15:44	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/06/21 07:34	12/06/21 15:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 15:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/06/21 07:34	12/06/21 15:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			12/06/21 07:34	12/06/21 15:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130			12/06/21 07:34	12/06/21 15:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/09/21 11:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/21 08:50	12/08/21 15:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/21 08:50	12/08/21 15:15	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1120 4.1'

Lab Sample ID: 880-8945-3

Date Collected: 12/03/21 10:02

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/21 08:50	12/08/21 15:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			12/08/21 08:50	12/08/21 15:15	1
o-Terphenyl (Surr)	110		70 - 130			12/08/21 08:50	12/08/21 15:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	769		5.04	mg/Kg			12/10/21 23:45	1

Client Sample ID: C1123 4.1'

Lab Sample ID: 880-8945-4

Date Collected: 12/03/21 10:03

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 16:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 16:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 16:04	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/06/21 07:34	12/06/21 16:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 16:04	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/06/21 07:34	12/06/21 16:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			12/06/21 07:34	12/06/21 16:04	1
1,4-Difluorobenzene (Surr)	108		70 - 130			12/06/21 07:34	12/06/21 16:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/09/21 11:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 16:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 16:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 16:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			12/08/21 08:50	12/08/21 16:09	1
o-Terphenyl (Surr)	115		70 - 130			12/08/21 08:50	12/08/21 16:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	908		4.98	mg/Kg			12/10/21 23:53	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1124 4.1'

Lab Sample ID: 880-8945-5

Date Collected: 12/03/21 10:04

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/06/21 07:34	12/06/21 16:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/06/21 07:34	12/06/21 16:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/06/21 07:34	12/06/21 16:25	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		12/06/21 07:34	12/06/21 16:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/06/21 07:34	12/06/21 16:25	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/06/21 07:34	12/06/21 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	12/06/21 07:34	12/06/21 16:25	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/06/21 07:34	12/06/21 16:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/09/21 11:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 16:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 16:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	12/08/21 08:50	12/08/21 16:59	1
o-Terphenyl (Surr)	113		70 - 130	12/08/21 08:50	12/08/21 16:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	284		4.99	mg/Kg			12/12/21 11:57	1

Client Sample ID: C1125 4.1'

Lab Sample ID: 880-8945-6

Date Collected: 12/03/21 10:05

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/06/21 07:34	12/06/21 16:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/06/21 07:34	12/06/21 16:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/06/21 07:34	12/06/21 16:45	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/06/21 07:34	12/06/21 16:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/06/21 07:34	12/06/21 16:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/06/21 07:34	12/06/21 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/06/21 07:34	12/06/21 16:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/06/21 07:34	12/06/21 16:45	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1125 4.1'

Lab Sample ID: 880-8945-6

Date Collected: 12/03/21 10:05

Matrix: Solid

Date Received: 12/03/21 15:21

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/09/21 11:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/21 08:50	12/08/21 17:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/21 08:50	12/08/21 17:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/21 08:50	12/08/21 17:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			12/08/21 08:50	12/08/21 17:19	1
o-Terphenyl (Surr)	108		70 - 130			12/08/21 08:50	12/08/21 17:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	436		4.95	mg/Kg			12/12/21 12:30	1

Client Sample ID: C1126 4.1'

Lab Sample ID: 880-8945-7

Date Collected: 12/03/21 10:06

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 17:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 17:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 17:06	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/06/21 07:34	12/06/21 17:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 17:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/06/21 07:34	12/06/21 17:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			12/06/21 07:34	12/06/21 17:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130			12/06/21 07:34	12/06/21 17:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/10/21 15:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/21 15:18	12/09/21 12:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/21 15:18	12/09/21 12:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1126 4.1'

Lab Sample ID: 880-8945-7

Date Collected: 12/03/21 10:06

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/21 15:18	12/09/21 12:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			12/08/21 15:18	12/09/21 12:21	1
o-Terphenyl (Surr)	104		70 - 130			12/08/21 15:18	12/09/21 12:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	505		4.95	mg/Kg			12/12/21 12:41	1

Client Sample ID: C1127 4.1'

Lab Sample ID: 880-8945-8

Date Collected: 12/03/21 10:07

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/06/21 07:34	12/06/21 17:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/06/21 07:34	12/06/21 17:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/06/21 07:34	12/06/21 17:26	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/06/21 07:34	12/06/21 17:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/06/21 07:34	12/06/21 17:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/06/21 07:34	12/06/21 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			12/06/21 07:34	12/06/21 17:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130			12/06/21 07:34	12/06/21 17:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/10/21 15:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/21 15:18	12/09/21 13:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/21 15:18	12/09/21 13:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/21 15:18	12/09/21 13:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			12/08/21 15:18	12/09/21 13:19	1
o-Terphenyl (Surr)	121		70 - 130			12/08/21 15:18	12/09/21 13:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	655		5.02	mg/Kg			12/12/21 12:52	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1129 4.1'

Lab Sample ID: 880-8945-9

Date Collected: 12/03/21 10:08

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/06/21 07:34	12/06/21 17:46	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/06/21 07:34	12/06/21 17:46	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/06/21 07:34	12/06/21 17:46	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		12/06/21 07:34	12/06/21 17:46	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/06/21 07:34	12/06/21 17:46	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/06/21 07:34	12/06/21 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/06/21 07:34	12/06/21 17:46	1
1,4-Difluorobenzene (Surr)	75		70 - 130	12/06/21 07:34	12/06/21 17:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/10/21 15:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/21 15:18	12/09/21 13:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/21 15:18	12/09/21 13:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/21 15:18	12/09/21 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	12/08/21 15:18	12/09/21 13:39	1
o-Terphenyl (Surr)	118		70 - 130	12/08/21 15:18	12/09/21 13:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	535		4.98	mg/Kg			12/12/21 13:03	1

Client Sample ID: C1132 4.1'

Lab Sample ID: 880-8945-10

Date Collected: 12/03/21 10:09

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 18:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 18:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 18:07	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/06/21 07:34	12/06/21 18:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 18:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/06/21 07:34	12/06/21 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/06/21 07:34	12/06/21 18:07	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/06/21 07:34	12/06/21 18:07	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1132 4.1'

Lab Sample ID: 880-8945-10

Date Collected: 12/03/21 10:09

Matrix: Solid

Date Received: 12/03/21 15:21

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1430		50.0	mg/Kg			12/10/21 15:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	74.0		50.0	mg/Kg		12/07/21 13:23	12/08/21 07:40	1
Diesel Range Organics (Over C10-C28)	1360		50.0	mg/Kg		12/07/21 13:23	12/08/21 07:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/08/21 07:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			12/07/21 13:23	12/08/21 07:40	1
o-Terphenyl (Surr)	94		70 - 130			12/07/21 13:23	12/08/21 07:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	520		4.96	mg/Kg			12/12/21 13:35	1

Client Sample ID: C1133 4.1'

Lab Sample ID: 880-8945-11

Date Collected: 12/03/21 10:10

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 18:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 18:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 18:27	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/06/21 07:34	12/06/21 18:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 18:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/06/21 07:34	12/06/21 18:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			12/06/21 07:34	12/06/21 18:27	1
1,4-Difluorobenzene (Surr)	83		70 - 130			12/06/21 07:34	12/06/21 18:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/09/21 09:17	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/10/21 15:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/08/21 04:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/08/21 04:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1133 4.1'

Lab Sample ID: 880-8945-11

Date Collected: 12/03/21 10:10

Matrix: Solid

Date Received: 12/03/21 15:21

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/08/21 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	12/07/21 13:23	12/08/21 04:36	1
o-Terphenyl (Surr)	119		70 - 130	12/07/21 13:23	12/08/21 04:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	773		5.04	mg/Kg			12/12/21 13:46	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-8945-1	C1117 4.1'	129	109
880-8945-2	C1119 4.1'	126	105
880-8945-3	C1120 4.1'	111	96
880-8945-4	C1123 4.1'	132 S1+	108
880-8945-5	C1124 4.1'	131 S1+	101
880-8945-6	C1125 4.1'	114	99
880-8945-7	C1126 4.1'	123	97
880-8945-8	C1127 4.1'	132 S1+	103
880-8945-9	C1129 4.1'	127	75
880-8945-10	C1132 4.1'	124	96
880-8945-11	C1133 4.1'	116	83
890-1674-A-1-A MS	Matrix Spike	103	103
890-1674-A-1-B MSD	Matrix Spike Duplicate	105	103
LCS 880-13933/1-A	Lab Control Sample	103	95
LCSD 880-13933/2-A	Lab Control Sample Dup	104	98
MB 880-13933/5-A	Method Blank	121	97
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-8945-1	C1117 4.1'	107	112
880-8945-2	C1119 4.1'	109	115
880-8945-3	C1120 4.1'	102	110
880-8945-4	C1123 4.1'	107	115
880-8945-5	C1124 4.1'	104	113
880-8945-6	C1125 4.1'	101	108
880-8945-7	C1126 4.1'	92	104
880-8945-7 MS	C1126 4.1'	97	97
880-8945-7 MSD	C1126 4.1'	87	86
880-8945-8	C1127 4.1'	105	121
880-8945-9	C1129 4.1'	103	118
880-8945-10	C1132 4.1'	94	94
880-8945-11	C1133 4.1'	102	119
880-8966-A-1-L MS	Matrix Spike	100	92
880-8966-A-1-M MSD	Matrix Spike Duplicate	103	89
890-1666-A-121-F MS	Matrix Spike	95	89
890-1666-A-121-G MSD	Matrix Spike Duplicate	92	88
LCS 880-14199/2-A	Lab Control Sample	102	108
LCS 880-14263/2-A	Lab Control Sample	100	97
LCS 880-14307/2-A	Lab Control Sample	85	88
LCSD 880-14199/3-A	Lab Control Sample Dup	100	106
LCSD 880-14307/3-A	Lab Control Sample Dup	106	113
MB 880-14199/1-A	Method Blank	98	119

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Project/Site: Palmio AST

Job ID: 880-8945-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
MB 880-14263/1-A	Method Blank	106	117
MB 880-14307/1-A	Method Blank	92	108
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13933/5-A

Matrix: Solid

Analysis Batch: 13934

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13933

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 10:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 10:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 10:37	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/06/21 07:34	12/06/21 10:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/21 07:34	12/06/21 10:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/06/21 07:34	12/06/21 10:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/06/21 07:34	12/06/21 10:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/06/21 07:34	12/06/21 10:37	1

Lab Sample ID: LCS 880-13933/1-A

Matrix: Solid

Analysis Batch: 13934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08479		mg/Kg		85	70 - 130
Toluene	0.100	0.08135		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.07966		mg/Kg		80	70 - 130
m,p-Xylenes	0.200	0.1705		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08369		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-13933/2-A

Matrix: Solid

Analysis Batch: 13934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13933

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08285		mg/Kg		83	70 - 130	2	35
Toluene	0.100	0.07932		mg/Kg		79	70 - 130	3	35
Ethylbenzene	0.100	0.07934		mg/Kg		79	70 - 130	0	35
m,p-Xylenes	0.200	0.1692		mg/Kg		85	70 - 130	1	35
o-Xylene	0.100	0.08141		mg/Kg		81	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-1674-A-1-B MSD

Matrix: Solid

Analysis Batch: 13934

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.08381		mg/Kg					
Toluene	<0.00200	U	0.0994	0.07873		mg/Kg					

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1674-A-1-B MSD

Matrix: Solid

Analysis Batch: 13934

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00200	U	0.0994	0.07978		mg/Kg					
m,p-Xylenes	<0.00399	U	0.199	0.1673		mg/Kg					
o-Xylene	<0.00200	U	0.0994	0.08334		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1674-A-1-A MS

Matrix: Solid

Analysis Batch: 13934

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-14199/1-A

Matrix: Solid

Analysis Batch: 14177

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14199

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/07/21 22:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/07/21 22:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/21 13:23	12/07/21 22:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	12/07/21 13:23	12/07/21 22:04	1
o-Terphenyl (Surr)	119		70 - 130	12/07/21 13:23	12/07/21 22:04	1

Lab Sample ID: LCS 880-14199/2-A

Matrix: Solid

Analysis Batch: 14177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	937.9		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	918.5		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	108		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-14199/3-A

Matrix: Solid

Analysis Batch: 14177

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	921.5		mg/Kg		92	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	906.6		mg/Kg		91	70 - 130	1	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	100		70 - 130						
o-Terphenyl (Surr)	106		70 - 130						

Lab Sample ID: 890-1666-A-121-F MS

Matrix: Solid

Analysis Batch: 14177

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	945.6		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1211		mg/Kg		121	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	95		70 - 130								
o-Terphenyl (Surr)	89		70 - 130								

Lab Sample ID: 890-1666-A-121-G MSD

Matrix: Solid

Analysis Batch: 14177

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	966.4		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1204		mg/Kg		121	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	92		70 - 130								
o-Terphenyl (Surr)	88		70 - 130								

Lab Sample ID: MB 880-14263/1-A

Matrix: Solid

Analysis Batch: 14242

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14263

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 11:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 11:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/21 08:50	12/08/21 11:01	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-14263/1-A

Matrix: Solid

Analysis Batch: 14242

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14263

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	12/08/21 08:50	12/08/21 11:01	1
o-Terphenyl (Surr)	117		70 - 130	12/08/21 08:50	12/08/21 11:01	1

Lab Sample ID: LCS 880-14263/2-A

Matrix: Solid

Analysis Batch: 14242

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14263

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	982.8		mg/Kg		98	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1081		mg/Kg		108	70 - 130	

	LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	100		70 - 130			
o-Terphenyl (Surr)	97		70 - 130			

Lab Sample ID: 880-8966-A-1-L MS

Matrix: Solid

Analysis Batch: 14242

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14263

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1273		mg/Kg		128	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1273		mg/Kg		126	70 - 130	

	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	100		70 - 130			
o-Terphenyl (Surr)	92		70 - 130			

Lab Sample ID: 880-8966-A-1-M MSD

Matrix: Solid

Analysis Batch: 14242

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14263

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1185		mg/Kg		119	70 - 130	7	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1270		mg/Kg		126	70 - 130	0	20	

	MSD	MSD				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	103		70 - 130			
o-Terphenyl (Surr)	89		70 - 130			

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-14307/1-A

Matrix: Solid

Analysis Batch: 14326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14307

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/21 15:18	12/09/21 11:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/21 15:18	12/09/21 11:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/21 15:18	12/09/21 11:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			12/08/21 15:18	12/09/21 11:22	1
o-Terphenyl (Surr)	108		70 - 130			12/08/21 15:18	12/09/21 11:22	1

Lab Sample ID: LCS 880-14307/2-A

Matrix: Solid

Analysis Batch: 14326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14307

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	822.1		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	881.9		mg/Kg		88	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	85		70 - 130				
o-Terphenyl (Surr)	88		70 - 130				

Lab Sample ID: LCSD 880-14307/3-A

Matrix: Solid

Analysis Batch: 14326

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14307

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	997.8		mg/Kg		100	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	1000	1069		mg/Kg		107	70 - 130	19	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	106		70 - 130						
o-Terphenyl (Surr)	113		70 - 130						

Lab Sample ID: 880-8945-7 MS

Matrix: Solid

Analysis Batch: 14326

Client Sample ID: C1126 4.1'

Prep Type: Total/NA

Prep Batch: 14307

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1220		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1298		mg/Kg		128	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-8945-7 MS

Matrix: Solid

Analysis Batch: 14326

Client Sample ID: C1126 4.1'

Prep Type: Total/NA

Prep Batch: 14307

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	97		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: 880-8945-7 MSD

Matrix: Solid

Analysis Batch: 14326

Client Sample ID: C1126 4.1'

Prep Type: Total/NA

Prep Batch: 14307

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1123		mg/Kg		112	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1153		mg/Kg		113	70 - 130	12	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	87		70 - 130								
o-Terphenyl (Surr)	86		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14198/1-A

Matrix: Solid

Analysis Batch: 14454

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			12/10/21 20:57	1		

Lab Sample ID: LCS 880-14198/2-A

Matrix: Solid

Analysis Batch: 14454

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	263.9		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-14198/3-A

Matrix: Solid

Analysis Batch: 14454

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	263.0		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-8945-2 MS

Matrix: Solid

Analysis Batch: 14454

Client Sample ID: C1119 4.1'

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	773	F1	1240	2173	F1	mg/Kg		113	90 - 110	

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-8945-2 MSD

Matrix: Solid

Analysis Batch: 14454

Client Sample ID: C1119 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	773	F1	1240	2124		mg/Kg		109	90 - 110	2	20

Lab Sample ID: MB 880-14408/1-A

Matrix: Solid

Analysis Batch: 14568

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/12/21 11:25	1

Lab Sample ID: LCS 880-14408/2-A

Matrix: Solid

Analysis Batch: 14568

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	238.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-14408/3-A

Matrix: Solid

Analysis Batch: 14568

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	236.8		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-8945-5 MS

Matrix: Solid

Analysis Batch: 14568

Client Sample ID: C1124 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	284		250	536.1		mg/Kg		101	90 - 110

Lab Sample ID: 880-8945-5 MSD

Matrix: Solid

Analysis Batch: 14568

Client Sample ID: C1124 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	284		250	523.4		mg/Kg		96	90 - 110	2	20

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

GC VOA

Prep Batch: 13933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-1	C1117 4.1'	Total/NA	Solid	5035	
880-8945-2	C1119 4.1'	Total/NA	Solid	5035	
880-8945-3	C1120 4.1'	Total/NA	Solid	5035	
880-8945-4	C1123 4.1'	Total/NA	Solid	5035	
880-8945-5	C1124 4.1'	Total/NA	Solid	5035	
880-8945-6	C1125 4.1'	Total/NA	Solid	5035	
880-8945-7	C1126 4.1'	Total/NA	Solid	5035	
880-8945-8	C1127 4.1'	Total/NA	Solid	5035	
880-8945-9	C1129 4.1'	Total/NA	Solid	5035	
880-8945-10	C1132 4.1'	Total/NA	Solid	5035	
880-8945-11	C1133 4.1'	Total/NA	Solid	5035	
MB 880-13933/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13933/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13933/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1674-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 13934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-1	C1117 4.1'	Total/NA	Solid	8021B	13933
880-8945-2	C1119 4.1'	Total/NA	Solid	8021B	13933
880-8945-3	C1120 4.1'	Total/NA	Solid	8021B	13933
880-8945-4	C1123 4.1'	Total/NA	Solid	8021B	13933
880-8945-5	C1124 4.1'	Total/NA	Solid	8021B	13933
880-8945-6	C1125 4.1'	Total/NA	Solid	8021B	13933
880-8945-7	C1126 4.1'	Total/NA	Solid	8021B	13933
880-8945-8	C1127 4.1'	Total/NA	Solid	8021B	13933
880-8945-9	C1129 4.1'	Total/NA	Solid	8021B	13933
880-8945-10	C1132 4.1'	Total/NA	Solid	8021B	13933
880-8945-11	C1133 4.1'	Total/NA	Solid	8021B	13933
MB 880-13933/5-A	Method Blank	Total/NA	Solid	8021B	13933
LCS 880-13933/1-A	Lab Control Sample	Total/NA	Solid	8021B	13933
LCSD 880-13933/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13933
890-1674-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1674-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	13933

Analysis Batch: 14350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-1	C1117 4.1'	Total/NA	Solid	Total BTEX	
880-8945-2	C1119 4.1'	Total/NA	Solid	Total BTEX	
880-8945-3	C1120 4.1'	Total/NA	Solid	Total BTEX	
880-8945-4	C1123 4.1'	Total/NA	Solid	Total BTEX	
880-8945-5	C1124 4.1'	Total/NA	Solid	Total BTEX	
880-8945-6	C1125 4.1'	Total/NA	Solid	Total BTEX	
880-8945-7	C1126 4.1'	Total/NA	Solid	Total BTEX	
880-8945-8	C1127 4.1'	Total/NA	Solid	Total BTEX	
880-8945-9	C1129 4.1'	Total/NA	Solid	Total BTEX	
880-8945-10	C1132 4.1'	Total/NA	Solid	Total BTEX	
880-8945-11	C1133 4.1'	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

GC Semi VOA

Analysis Batch: 14177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-10	C1132 4.1'	Total/NA	Solid	8015B NM	14199
880-8945-11	C1133 4.1'	Total/NA	Solid	8015B NM	14199
MB 880-14199/1-A	Method Blank	Total/NA	Solid	8015B NM	14199
LCS 880-14199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14199
LCSD 880-14199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14199
890-1666-A-121-F MS	Matrix Spike	Total/NA	Solid	8015B NM	14199
890-1666-A-121-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14199

Prep Batch: 14199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-10	C1132 4.1'	Total/NA	Solid	8015NM Prep	
880-8945-11	C1133 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-14199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1666-A-121-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1666-A-121-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 14242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-1	C1117 4.1'	Total/NA	Solid	8015B NM	14263
880-8945-2	C1119 4.1'	Total/NA	Solid	8015B NM	14263
880-8945-3	C1120 4.1'	Total/NA	Solid	8015B NM	14263
880-8945-4	C1123 4.1'	Total/NA	Solid	8015B NM	14263
880-8945-5	C1124 4.1'	Total/NA	Solid	8015B NM	14263
880-8945-6	C1125 4.1'	Total/NA	Solid	8015B NM	14263
MB 880-14263/1-A	Method Blank	Total/NA	Solid	8015B NM	14263
LCS 880-14263/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14263
880-8966-A-1-L MS	Matrix Spike	Total/NA	Solid	8015B NM	14263
880-8966-A-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14263

Prep Batch: 14263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-1	C1117 4.1'	Total/NA	Solid	8015NM Prep	
880-8945-2	C1119 4.1'	Total/NA	Solid	8015NM Prep	
880-8945-3	C1120 4.1'	Total/NA	Solid	8015NM Prep	
880-8945-4	C1123 4.1'	Total/NA	Solid	8015NM Prep	
880-8945-5	C1124 4.1'	Total/NA	Solid	8015NM Prep	
880-8945-6	C1125 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-14263/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14263/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
880-8966-A-1-L MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-8966-A-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 14307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-7	C1126 4.1'	Total/NA	Solid	8015NM Prep	
880-8945-8	C1127 4.1'	Total/NA	Solid	8015NM Prep	
880-8945-9	C1129 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-14307/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14307/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

GC Semi VOA (Continued)

Prep Batch: 14307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-14307/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-8945-7 MS	C1126 4.1'	Total/NA	Solid	8015NM Prep	
880-8945-7 MSD	C1126 4.1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 14326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-7	C1126 4.1'	Total/NA	Solid	8015B NM	14307
880-8945-8	C1127 4.1'	Total/NA	Solid	8015B NM	14307
880-8945-9	C1129 4.1'	Total/NA	Solid	8015B NM	14307
MB 880-14307/1-A	Method Blank	Total/NA	Solid	8015B NM	14307
LCS 880-14307/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14307
LCSD 880-14307/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14307
880-8945-7 MS	C1126 4.1'	Total/NA	Solid	8015B NM	14307
880-8945-7 MSD	C1126 4.1'	Total/NA	Solid	8015B NM	14307

Analysis Batch: 14358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-1	C1117 4.1'	Total/NA	Solid	8015 NM	
880-8945-2	C1119 4.1'	Total/NA	Solid	8015 NM	
880-8945-3	C1120 4.1'	Total/NA	Solid	8015 NM	
880-8945-4	C1123 4.1'	Total/NA	Solid	8015 NM	
880-8945-5	C1124 4.1'	Total/NA	Solid	8015 NM	
880-8945-6	C1125 4.1'	Total/NA	Solid	8015 NM	

Analysis Batch: 14531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-7	C1126 4.1'	Total/NA	Solid	8015 NM	
880-8945-8	C1127 4.1'	Total/NA	Solid	8015 NM	
880-8945-9	C1129 4.1'	Total/NA	Solid	8015 NM	
880-8945-10	C1132 4.1'	Total/NA	Solid	8015 NM	
880-8945-11	C1133 4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 14198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-1	C1117 4.1'	Soluble	Solid	DI Leach	
880-8945-2	C1119 4.1'	Soluble	Solid	DI Leach	
880-8945-3	C1120 4.1'	Soluble	Solid	DI Leach	
880-8945-4	C1123 4.1'	Soluble	Solid	DI Leach	
MB 880-14198/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14198/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14198/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8945-2 MS	C1119 4.1'	Soluble	Solid	DI Leach	
880-8945-2 MSD	C1119 4.1'	Soluble	Solid	DI Leach	

Leach Batch: 14408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-5	C1124 4.1'	Soluble	Solid	DI Leach	
880-8945-6	C1125 4.1'	Soluble	Solid	DI Leach	
880-8945-7	C1126 4.1'	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

HPLC/IC (Continued)

Leach Batch: 14408 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-8	C1127 4.1'	Soluble	Solid	DI Leach	
880-8945-9	C1129 4.1'	Soluble	Solid	DI Leach	
880-8945-10	C1132 4.1'	Soluble	Solid	DI Leach	
880-8945-11	C1133 4.1'	Soluble	Solid	DI Leach	
MB 880-14408/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14408/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14408/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8945-5 MS	C1124 4.1'	Soluble	Solid	DI Leach	
880-8945-5 MSD	C1124 4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 14454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-1	C1117 4.1'	Soluble	Solid	300.0	14198
880-8945-2	C1119 4.1'	Soluble	Solid	300.0	14198
880-8945-3	C1120 4.1'	Soluble	Solid	300.0	14198
880-8945-4	C1123 4.1'	Soluble	Solid	300.0	14198
MB 880-14198/1-A	Method Blank	Soluble	Solid	300.0	14198
LCS 880-14198/2-A	Lab Control Sample	Soluble	Solid	300.0	14198
LCSD 880-14198/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14198
880-8945-2 MS	C1119 4.1'	Soluble	Solid	300.0	14198
880-8945-2 MSD	C1119 4.1'	Soluble	Solid	300.0	14198

Analysis Batch: 14568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8945-5	C1124 4.1'	Soluble	Solid	300.0	14408
880-8945-6	C1125 4.1'	Soluble	Solid	300.0	14408
880-8945-7	C1126 4.1'	Soluble	Solid	300.0	14408
880-8945-8	C1127 4.1'	Soluble	Solid	300.0	14408
880-8945-9	C1129 4.1'	Soluble	Solid	300.0	14408
880-8945-10	C1132 4.1'	Soluble	Solid	300.0	14408
880-8945-11	C1133 4.1'	Soluble	Solid	300.0	14408
MB 880-14408/1-A	Method Blank	Soluble	Solid	300.0	14408
LCS 880-14408/2-A	Lab Control Sample	Soluble	Solid	300.0	14408
LCSD 880-14408/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14408
880-8945-5 MS	C1124 4.1'	Soluble	Solid	300.0	14408
880-8945-5 MSD	C1124 4.1'	Soluble	Solid	300.0	14408

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1117 4.1'

Lab Sample ID: 880-8945-1

Date Collected: 12/03/21 10:00

Matrix: Solid

Date Received: 12/03/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 14:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14358	12/09/21 11:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14263	12/08/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14242	12/08/21 14:36	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	14198	12/07/21 13:10	CA	XEN MID
Soluble	Analysis	300.0		1			14454	12/10/21 23:11	SC	XEN MID

Client Sample ID: C1119 4.1'

Lab Sample ID: 880-8945-2

Date Collected: 12/03/21 10:01

Matrix: Solid

Date Received: 12/03/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 15:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14358	12/09/21 11:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14263	12/08/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14242	12/08/21 14:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	14198	12/07/21 13:10	CA	XEN MID
Soluble	Analysis	300.0		5			14454	12/10/21 23:19	SC	XEN MID

Client Sample ID: C1120 4.1'

Lab Sample ID: 880-8945-3

Date Collected: 12/03/21 10:02

Matrix: Solid

Date Received: 12/03/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 15:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14358	12/09/21 11:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14263	12/08/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14242	12/08/21 15:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	14198	12/07/21 13:10	CA	XEN MID
Soluble	Analysis	300.0		1			14454	12/10/21 23:45	SC	XEN MID

Client Sample ID: C1123 4.1'

Lab Sample ID: 880-8945-4

Date Collected: 12/03/21 10:03

Matrix: Solid

Date Received: 12/03/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 16:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1123 4.1'

Lab Sample ID: 880-8945-4

Date Collected: 12/03/21 10:03

Matrix: Solid

Date Received: 12/03/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			14358	12/09/21 11:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14263	12/08/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14242	12/08/21 16:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	14198	12/07/21 13:10	CA	XEN MID
Soluble	Analysis	300.0		1			14454	12/10/21 23:53	SC	XEN MID

Client Sample ID: C1124 4.1'

Lab Sample ID: 880-8945-5

Date Collected: 12/03/21 10:04

Matrix: Solid

Date Received: 12/03/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 16:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14358	12/09/21 11:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14263	12/08/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14242	12/08/21 16:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	14408	12/09/21 16:53	CA	XEN MID
Soluble	Analysis	300.0		1			14568	12/12/21 11:57	CH	XEN MID

Client Sample ID: C1125 4.1'

Lab Sample ID: 880-8945-6

Date Collected: 12/03/21 10:05

Matrix: Solid

Date Received: 12/03/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 16:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14358	12/09/21 11:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14263	12/08/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14242	12/08/21 17:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14408	12/09/21 16:53	CA	XEN MID
Soluble	Analysis	300.0		1			14568	12/12/21 12:30	CH	XEN MID

Client Sample ID: C1126 4.1'

Lab Sample ID: 880-8945-7

Date Collected: 12/03/21 10:06

Matrix: Solid

Date Received: 12/03/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 17:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14531	12/10/21 15:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14307	12/08/21 15:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14326	12/09/21 12:21	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1126 4.1'

Lab Sample ID: 880-8945-7

Date Collected: 12/03/21 10:06

Matrix: Solid

Date Received: 12/03/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	14408	12/09/21 16:53	CA	XEN MID
Soluble	Analysis	300.0		1			14568	12/12/21 12:41	CH	XEN MID

Client Sample ID: C1127 4.1'

Lab Sample ID: 880-8945-8

Date Collected: 12/03/21 10:07

Matrix: Solid

Date Received: 12/03/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 17:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14531	12/10/21 15:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14307	12/08/21 15:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14326	12/09/21 13:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	14408	12/09/21 16:53	CA	XEN MID
Soluble	Analysis	300.0		1			14568	12/12/21 12:52	CH	XEN MID

Client Sample ID: C1129 4.1'

Lab Sample ID: 880-8945-9

Date Collected: 12/03/21 10:08

Matrix: Solid

Date Received: 12/03/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 17:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14531	12/10/21 15:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14307	12/08/21 15:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14326	12/09/21 13:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	14408	12/09/21 16:53	CA	XEN MID
Soluble	Analysis	300.0		1			14568	12/12/21 13:03	CH	XEN MID

Client Sample ID: C1132 4.1'

Lab Sample ID: 880-8945-10

Date Collected: 12/03/21 10:09

Matrix: Solid

Date Received: 12/03/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 18:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14531	12/10/21 15:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14199	12/07/21 13:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14177	12/08/21 07:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	14408	12/09/21 16:53	CA	XEN MID
Soluble	Analysis	300.0		1			14568	12/12/21 13:35	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Client Sample ID: C1133 4.1'
Date Collected: 12/03/21 10:10
Date Received: 12/03/21 15:21

Lab Sample ID: 880-8945-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	13933	12/06/21 07:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13934	12/06/21 18:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14350	12/09/21 09:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14531	12/10/21 15:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14199	12/07/21 13:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14177	12/08/21 04:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	14408	12/09/21 16:53	CA	XEN MID
Soluble	Analysis	300.0		1			14568	12/12/21 13:46	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-8945-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-8945-1	C1117 4.1'	Solid	12/03/21 10:00	12/03/21 15:21
880-8945-2	C1119 4.1'	Solid	12/03/21 10:01	12/03/21 15:21
880-8945-3	C1120 4.1'	Solid	12/03/21 10:02	12/03/21 15:21
880-8945-4	C1123 4.1'	Solid	12/03/21 10:03	12/03/21 15:21
880-8945-5	C1124 4.1'	Solid	12/03/21 10:04	12/03/21 15:21
880-8945-6	C1125 4.1'	Solid	12/03/21 10:05	12/03/21 15:21
880-8945-7	C1126 4.1'	Solid	12/03/21 10:06	12/03/21 15:21
880-8945-8	C1127 4.1'	Solid	12/03/21 10:07	12/03/21 15:21
880-8945-9	C1129 4.1'	Solid	12/03/21 10:08	12/03/21 15:21
880-8945-10	C1132 4.1'	Solid	12/03/21 10:09	12/03/21 15:21
880-8945-11	C1133 4.1'	Solid	12/03/21 10:10	12/03/21 15:21

Varson & Associates, Inc.
Environmental Consultants

507N Warrenfeld, Ste 202
Midland TX 79701
432-687 0901

Data Reported to

DATE 12-3-21 PAGE 1 OF 1
PO# LAB WORK ORDER#
PROJECT LOCATION OR NAME Palmie ASt
LAI PROJECT # 21-0125-03 COLLECTOR TP

8945

CHAIN-OF-CUSTODY

No. 2319

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State
MST/AM

Field
Sample I D

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX/MTBE

TPH 418 1

TPH 1005

TPH 1006

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PCBs

TCLP METALS (RCRA)

TCLP - PEST

TOTAL METALS (RCRA)

LEAD - TOTAL

RCI

TDS

pH

EXPLOSIVES

CHLORIDE

ANIONS

ALKALINITY

OTHER LIST

Semi-VOC

FLASHPOINT

% MOISTURE

HEXAVALENT CHROMIUM

PECHLORATE

CYANIDE

HERB

PAH 8270

8151 HERBICIDES

HOLDPAH

FIELD NOTES

TOTAL 11

RELINQUISHED BY (Signature)
DATE/TIME
RECEIVED BY (Signature)
DATE/TIME

RELINQUISHED BY (Signature)
DATE/TIME
RECEIVED BY (Signature)
DATE/TIME

RELINQUISHED BY (Signature)
DATE/TIME
RECEIVED BY (Signature)
DATE/TIME

LABORATORY
SEND

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 71/72
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
CARRIER BILL #
☐ HAND DELIVERED

202

880-8945 Chain of Custody

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-8945-1

Login Number: 8945

List Source: Eurofins Xenco, Midland

List Number: 1

Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1686-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/15/2021 9:19:35 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1686-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⌘	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Job ID: 890-1686-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1686-1

Comments

No additional comments.

Receipt

The samples were received on 12/7/2021 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 24.0° C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): C-379 4.1' (890-1686-1), C-382 4.1' (890-1686-2), C-344 4.1' (890-1686-3), C-631 3.5' (890-1686-4), C-632 3.5' (890-1686-5), C-621 3.5' (890-1686-6), C-607 3.5' (890-1686-7), C-630 4.1' (890-1686-8), C-617 4.1' (890-1686-9), C-618 4.1' (890-1686-10), C-619 4.1' (890-1686-11) and C-620 4.1' (890-1686-12).

I have 2 sample jars with the same name:

C-631 12-7-21 10:01 3.5' Which could be sample #4 on COC based on time sampled.

C-631 12-7-21 11:04 3.5' Which could be sample #6 on COC based on time sampled being the same on jar and COC

The COC says sample #6 is C-621 but information matches with the jar marked C-631 12-7-21 11:04 3.5'

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-14411 and analytical batch 880-14572 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C-379 4.1'

Lab Sample ID: 890-1686-1

Date Collected: 12/07/21 09:00

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 22:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 22:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 22:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/09/21 07:30	12/09/21 22:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 22:40	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/09/21 07:30	12/09/21 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	12/09/21 07:30	12/09/21 22:40	1
1,4-Difluorobenzene (Surr)	88		70 - 130	12/09/21 07:30	12/09/21 22:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/13/21 11:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 11:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 11:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	12/10/21 08:36	12/10/21 11:56	1
o-Terphenyl (Surr)	94		70 - 130	12/10/21 08:36	12/10/21 11:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		5.04	mg/Kg			12/12/21 18:26	1

Client Sample ID: C-382 4.1'

Lab Sample ID: 890-1686-2

Date Collected: 12/07/21 09:01

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/09/21 23:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/09/21 23:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/09/21 23:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/09/21 07:30	12/09/21 23:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/09/21 23:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/09/21 07:30	12/09/21 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	12/09/21 07:30	12/09/21 23:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C-382 4.1'

Lab Sample ID: 890-1686-2

Date Collected: 12/07/21 09:01

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	115		70 - 130	12/09/21 07:30	12/09/21 23:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/13/21 11:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 13:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 13:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 13:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			12/10/21 08:36	12/10/21 13:00	1
o-Terphenyl (Surr)	92		70 - 130			12/10/21 08:36	12/10/21 13:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	324		4.97	mg/Kg			12/13/21 13:19	1

Client Sample ID: C-344 4.1'

Lab Sample ID: 890-1686-3

Date Collected: 12/07/21 09:02

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 23:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 23:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 23:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/09/21 07:30	12/09/21 23:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 23:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/09/21 07:30	12/09/21 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	12/09/21 07:30	12/09/21 23:34	1
1,4-Difluorobenzene (Surr)	130		70 - 130	12/09/21 07:30	12/09/21 23:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/13/21 11:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C-344 4.1'

Lab Sample ID: 890-1686-3

Date Collected: 12/07/21 09:02

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 13:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 13:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 13:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130			12/10/21 08:36	12/10/21 13:21	1
o-Terphenyl (Surr)	112		70 - 130			12/10/21 08:36	12/10/21 13:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	789		4.95	mg/Kg			12/12/21 18:39	1

Client Sample ID: C-631 3.5'

Lab Sample ID: 890-1686-4

Date Collected: 12/07/21 10:01

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/09/21 07:30	12/10/21 00:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/09/21 07:30	12/10/21 00:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/09/21 07:30	12/10/21 00:02	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/09/21 07:30	12/10/21 00:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/09/21 07:30	12/10/21 00:02	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/09/21 07:30	12/10/21 00:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			12/09/21 07:30	12/10/21 00:02	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130			12/09/21 07:30	12/10/21 00:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/13/21 11:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 13:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 13:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 13:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			12/10/21 08:36	12/10/21 13:42	1
o-Terphenyl (Surr)	108		70 - 130			12/10/21 08:36	12/10/21 13:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C-631 3.5'

Lab Sample ID: 890-1686-4

Date Collected: 12/07/21 10:01

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 3.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	264		4.99	mg/Kg			12/12/21 18:46	1

Client Sample ID: C-632 3.5'

Lab Sample ID: 890-1686-5

Date Collected: 12/07/21 10:02

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/10/21 00:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/10/21 00:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/10/21 00:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/09/21 07:30	12/10/21 00:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/10/21 00:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/09/21 07:30	12/10/21 00:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			12/09/21 07:30	12/10/21 00:30	1
1,4-Difluorobenzene (Surr)	119		70 - 130			12/09/21 07:30	12/10/21 00:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/13/21 11:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/13/21 12:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/10/21 08:36	12/10/21 14:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/10/21 08:36	12/10/21 14:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/10/21 08:36	12/10/21 14:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			12/10/21 08:36	12/10/21 14:04	1
o-Terphenyl (Surr)	89		70 - 130			12/10/21 08:36	12/10/21 14:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	216		5.01	mg/Kg			12/12/21 18:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C-621 3.5'

Lab Sample ID: 890-1686-6

Date Collected: 12/07/21 11:04

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/09/21 07:30	12/10/21 00:58	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/09/21 07:30	12/10/21 00:58	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/09/21 07:30	12/10/21 00:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/09/21 07:30	12/10/21 00:58	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/09/21 07:30	12/10/21 00:58	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/09/21 07:30	12/10/21 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	12/09/21 07:30	12/10/21 00:58	1
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130	12/09/21 07:30	12/10/21 00:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/13/21 11:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 14:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 14:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130	12/10/21 08:36	12/10/21 14:25	1
o-Terphenyl (Surr)	88		70 - 130	12/10/21 08:36	12/10/21 14:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	495		5.04	mg/Kg			12/13/21 19:51	1

Client Sample ID: C-607 3.5'

Lab Sample ID: 890-1686-7

Date Collected: 12/07/21 11:06

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/09/21 07:30	12/10/21 01:26	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/09/21 07:30	12/10/21 01:26	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/09/21 07:30	12/10/21 01:26	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/09/21 07:30	12/10/21 01:26	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/09/21 07:30	12/10/21 01:26	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/09/21 07:30	12/10/21 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	189	S1+	70 - 130	12/09/21 07:30	12/10/21 01:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C-607 3.5'

Lab Sample ID: 890-1686-7

Date Collected: 12/07/21 11:06

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	12/09/21 07:30	12/10/21 01:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/13/21 11:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/13/21 12:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/10/21 08:36	12/10/21 14:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/10/21 08:36	12/10/21 14:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/10/21 08:36	12/10/21 14:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			12/10/21 08:36	12/10/21 14:46	1
o-Terphenyl (Surr)	107		70 - 130			12/10/21 08:36	12/10/21 14:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	254		5.00	mg/Kg			12/13/21 20:00	1

Client Sample ID: C-630 4.1'

Lab Sample ID: 890-1686-8

Date Collected: 12/07/21 13:30

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/09/21 07:30	12/10/21 01:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/09/21 07:30	12/10/21 01:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/09/21 07:30	12/10/21 01:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/09/21 07:30	12/10/21 01:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/09/21 07:30	12/10/21 01:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/09/21 07:30	12/10/21 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	12/09/21 07:30	12/10/21 01:54	1
1,4-Difluorobenzene (Surr)	121		70 - 130	12/09/21 07:30	12/10/21 01:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/13/21 11:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:23	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C-630 4.1'

Lab Sample ID: 890-1686-8

Date Collected: 12/07/21 13:30

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 15:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			12/10/21 08:36	12/10/21 15:08	1
o-Terphenyl (Surr)	94		70 - 130			12/10/21 08:36	12/10/21 15:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	559		4.96	mg/Kg			12/13/21 20:08	1

Client Sample ID: C-617 4.1'

Lab Sample ID: 890-1686-9

Date Collected: 12/07/21 14:00

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/10/21 02:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/10/21 02:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/10/21 02:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/09/21 07:30	12/10/21 02:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/10/21 02:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/09/21 07:30	12/10/21 02:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130			12/09/21 07:30	12/10/21 02:21	1
1,4-Difluorobenzene (Surr)	129		70 - 130			12/09/21 07:30	12/10/21 02:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/13/21 11:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 15:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 15:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 15:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			12/10/21 08:36	12/10/21 15:29	1
o-Terphenyl (Surr)	91		70 - 130			12/10/21 08:36	12/10/21 15:29	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C-617 4.1'

Lab Sample ID: 890-1686-9

Date Collected: 12/07/21 14:00

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	913		4.99	mg/Kg			12/13/21 20:16	1

Client Sample ID: C-618 4.1'

Lab Sample ID: 890-1686-10

Date Collected: 12/07/21 14:01

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/10/21 02:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/10/21 02:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/10/21 02:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/09/21 07:30	12/10/21 02:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/10/21 02:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/09/21 07:30	12/10/21 02:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			12/09/21 07:30	12/10/21 02:49	1
1,4-Difluorobenzene (Surr)	116		70 - 130			12/09/21 07:30	12/10/21 02:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/13/21 11:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 15:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 15:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/10/21 08:36	12/10/21 15:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			12/10/21 08:36	12/10/21 15:51	1
o-Terphenyl (Surr)	87		70 - 130			12/10/21 08:36	12/10/21 15:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	935		4.97	mg/Kg			12/13/21 20:25	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C- 619 4.1'

Lab Sample ID: 890-1686-11

Date Collected: 12/07/21 14:02

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/09/21 10:37	12/10/21 06:13	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/09/21 10:37	12/10/21 06:13	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/09/21 10:37	12/10/21 06:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/09/21 10:37	12/10/21 06:13	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/09/21 10:37	12/10/21 06:13	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/09/21 10:37	12/10/21 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/09/21 10:37	12/10/21 06:13	1
1,4-Difluorobenzene (Surr)	80		70 - 130	12/09/21 10:37	12/10/21 06:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/13/21 11:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 16:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 16:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	12/10/21 08:36	12/10/21 16:34	1
o-Terphenyl (Surr)	93		70 - 130	12/10/21 08:36	12/10/21 16:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		5.00	mg/Kg			12/13/21 20:33	1

Client Sample ID: C-620 4.1

Lab Sample ID: 890-1686-12

Date Collected: 12/07/21 14:03

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/09/21 10:37	12/10/21 06:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/09/21 10:37	12/10/21 06:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/09/21 10:37	12/10/21 06:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/09/21 10:37	12/10/21 06:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/09/21 10:37	12/10/21 06:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/09/21 10:37	12/10/21 06:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/09/21 10:37	12/10/21 06:33	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C-620 4.1

Lab Sample ID: 890-1686-12

Date Collected: 12/07/21 14:03

Matrix: Solid

Date Received: 12/07/21 15:00

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	12/09/21 10:37	12/10/21 06:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/13/21 11:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 16:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 16:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 16:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			12/10/21 08:36	12/10/21 16:55	1
o-Terphenyl (Surr)	91		70 - 130			12/10/21 08:36	12/10/21 16:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	945		4.96	mg/Kg			12/13/21 20:42	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-9100-A-41-C MS	Matrix Spike	124	101
880-9100-A-41-D MSD	Matrix Spike Duplicate	109	101
890-1686-1	C-379 4.1'	149 S1+	88
890-1686-2	C-382 4.1'	138 S1+	115
890-1686-3	C-344 4.1'	128	130
890-1686-4	C-631 3.5'	135 S1+	133 S1+
890-1686-5	C-632 3.5'	130	119
890-1686-6	C-621 3.5'	130	131 S1+
890-1686-7	C-607 3.5'	189 S1+	95
890-1686-8	C-630 4.1'	156 S1+	121
890-1686-9	C-617 4.1'	149 S1+	129
890-1686-10	C-618 4.1'	84	116
890-1686-11	C- 619 4.1'	114	80
890-1686-12	C-620 4.1	124	82
890-1689-A-1-C MSD	Matrix Spike Duplicate	126	130
890-1689-A-1-E MS	Matrix Spike	123	135 S1+
LCS 880-14280/1-A	Lab Control Sample	106	98
LCS 880-14298/1-A	Lab Control Sample	117	130
LCSD 880-14280/2-A	Lab Control Sample Dup	109	94
LCSD 880-14298/2-A	Lab Control Sample Dup	116	115
MB 880-14280/5-A	Method Blank	105	80
MB 880-14294/5-A	Method Blank	125	124
MB 880-14298/5-A	Method Blank	76	117
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-1686-1	C-379 4.1'	92	94
890-1686-1 MS	C-379 4.1'	93	91
890-1686-1 MSD	C-379 4.1'	89	92
890-1686-2	C-382 4.1'	89	92
890-1686-3	C-344 4.1'	111	112
890-1686-4	C-631 3.5'	107	108
890-1686-5	C-632 3.5'	90	89
890-1686-6	C-621 3.5'	86	88
890-1686-7	C-607 3.5'	103	107
890-1686-8	C-630 4.1'	93	94
890-1686-9	C-617 4.1'	86	91
890-1686-10	C-618 4.1'	87	87
890-1686-11	C- 619 4.1'	92	93
890-1686-12	C-620 4.1	88	91
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1686-1

Project/Site: Palmio AST

SDG: 21-0105-02

OTPH = o-Terphenyl (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO2	OTPH2
		(70-130)	(70-130)
LCS 880-14448/2-A	Lab Control Sample	106	111
LCSD 880-14448/3-A	Lab Control Sample Dup	117	121
MB 880-14448/1-A	Method Blank	104	109

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14280/5-A

Matrix: Solid

Analysis Batch: 14330

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14280

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/08/21 10:37	12/09/21 22:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/08/21 10:37	12/09/21 22:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/08/21 10:37	12/09/21 22:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/08/21 10:37	12/09/21 22:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/08/21 10:37	12/09/21 22:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/08/21 10:37	12/09/21 22:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	12/08/21 10:37	12/09/21 22:42	1
1,4-Difluorobenzene (Surr)	80		70 - 130	12/08/21 10:37	12/09/21 22:42	1

Lab Sample ID: LCS 880-14280/1-A

Matrix: Solid

Analysis Batch: 14330

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09526		mg/Kg		95	70 - 130
Toluene	0.100	0.09237		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.08805		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1858		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09136		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-14280/2-A

Matrix: Solid

Analysis Batch: 14330

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14280

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09510		mg/Kg		95	70 - 130	0	35
Toluene	0.100	0.09131		mg/Kg		91	70 - 130	1	35
Ethylbenzene	0.100	0.08775		mg/Kg		88	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1875		mg/Kg		94	70 - 130	1	35
o-Xylene	0.100	0.08973		mg/Kg		90	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-9100-A-41-C MS

Matrix: Solid

Analysis Batch: 14330

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14280

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.101	0.07732		mg/Kg		77	70 - 130
Toluene	<0.00199	U F1	0.101	0.07365		mg/Kg		72	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-9100-A-41-C MS

Matrix: Solid

Analysis Batch: 14330

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14280

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F1	0.101	0.07009	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1468		mg/Kg		73	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.06825	F1	mg/Kg		67	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-9100-A-41-D MSD

Matrix: Solid

Analysis Batch: 14330

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14280

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U	0.101	0.07366		mg/Kg		73	70 - 130	5	35
Toluene	<0.00199	U F1	0.101	0.06732	F1	mg/Kg		66	70 - 130	9	35
Ethylbenzene	<0.00199	U F1	0.101	0.06493	F1	mg/Kg		64	70 - 130	8	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1374	F1	mg/Kg		68	70 - 130	7	35
o-Xylene	<0.00199	U F1	0.101	0.06629	F1	mg/Kg		65	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-14294/5-A

Matrix: Solid

Analysis Batch: 14330

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14294

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 10:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 10:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 10:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/09/21 07:30	12/09/21 10:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 10:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/09/21 07:30	12/09/21 10:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	12/09/21 07:30	12/09/21 10:56	1
1,4-Difluorobenzene (Surr)	124		70 - 130	12/09/21 07:30	12/09/21 10:56	1

Lab Sample ID: MB 880-14298/5-A

Matrix: Solid

Analysis Batch: 14375

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14298

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 16:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 16:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 16:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/09/21 07:30	12/09/21 16:25	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-14298/5-A

Matrix: Solid

Analysis Batch: 14375

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14298

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 16:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/09/21 07:30	12/09/21 16:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	12/09/21 07:30	12/09/21 16:25	1
1,4-Difluorobenzene (Surr)	117		70 - 130	12/09/21 07:30	12/09/21 16:25	1

Lab Sample ID: LCS 880-14298/1-A

Matrix: Solid

Analysis Batch: 14375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1020		mg/Kg		102	70 - 130
Toluene	0.100	0.1006		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1014		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2233		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1043		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	130		70 - 130

Lab Sample ID: LCSD 880-14298/2-A

Matrix: Solid

Analysis Batch: 14375

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14298

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1035		mg/Kg		104	70 - 130	1	35
Toluene	0.100	0.1007		mg/Kg		101	70 - 130	0	35
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2248		mg/Kg		112	70 - 130	1	35
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 890-1689-A-1-C MSD

Matrix: Solid

Analysis Batch: 14375

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14298

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U	0.0992	0.1195		mg/Kg		120	70 - 130	1	35
Toluene	<0.00199	U	0.0992	0.1033		mg/Kg		104	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.0992	0.1035		mg/Kg		104	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2269		mg/Kg		114	70 - 130	2	35
o-Xylene	<0.00199	U	0.0992	0.1042		mg/Kg		105	70 - 130	2	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1689-A-1-C MSD

Matrix: Solid

Analysis Batch: 14375

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14298

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	130		70 - 130

Lab Sample ID: 890-1689-A-1-E MS

Matrix: Solid

Analysis Batch: 14375

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14298

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0990	0.1188		mg/Kg		120	70 - 130
Toluene	<0.00199	U	0.0990	0.1014		mg/Kg		102	70 - 130
Ethylbenzene	<0.00199	U	0.0990	0.1024		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2230		mg/Kg		113	70 - 130
o-Xylene	<0.00199	U	0.0990	0.1027		mg/Kg		104	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-14448/1-A

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14448

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 10:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 10:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/10/21 08:36	12/10/21 10:53	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	104		70 - 130	12/10/21 08:36	12/10/21 10:53	1		
o-Terphenyl (Surr)	109		70 - 130	12/10/21 08:36	12/10/21 10:53	1		

Lab Sample ID: LCS 880-14448/2-A

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	938.5		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1010		mg/Kg		101	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-14448/3-A

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14448

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	877.6		mg/Kg		88	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	997.9		mg/Kg		100	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	117		70 - 130						
o-Terphenyl (Surr)	121		70 - 130						

Lab Sample ID: 890-1686-1 MS

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: C-379 4.1'

Prep Type: Total/NA

Prep Batch: 14448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1169		mg/Kg		116	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1285		mg/Kg		129	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	93		70 - 130								
o-Terphenyl (Surr)	91		70 - 130								

Lab Sample ID: 890-1686-1 MSD

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: C-379 4.1'

Prep Type: Total/NA

Prep Batch: 14448

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1182		mg/Kg		117	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1291		mg/Kg		129	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	89		70 - 130								
o-Terphenyl (Surr)	92		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14411/1-A

Matrix: Solid

Analysis Batch: 14572

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/12/21 15:04	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-14411/2-A

Matrix: Solid

Analysis Batch: 14572

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	260.6		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-14411/3-A

Matrix: Solid

Analysis Batch: 14572

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	264.2		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 890-1684-A-8-I MS

Matrix: Solid

Analysis Batch: 14572

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	72.9	F1	250	350.8	F1	mg/Kg		111	90 - 110

Lab Sample ID: 890-1684-A-8-J MSD

Matrix: Solid

Analysis Batch: 14572

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	72.9	F1	250	350.7	F1	mg/Kg		111	90 - 110	0	20

Lab Sample ID: MB 880-14496/1-A

Matrix: Solid

Analysis Batch: 14764

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/13/21 16:31	1

Lab Sample ID: LCS 880-14496/2-A

Matrix: Solid

Analysis Batch: 14764

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	261.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-14496/3-A

Matrix: Solid

Analysis Batch: 14764

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	261.6		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-9122-A-6-G MS

Matrix: Solid

Analysis Batch: 14764

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	91.7		248	361.3		mg/Kg		109	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-9122-A-6-H MSD					Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 14764												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	91.7		248	355.7		mg/Kg		107	90 - 110	2	20	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

GC VOA

Prep Batch: 14280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-11	C- 619 4.1'	Total/NA	Solid	5035	
890-1686-12	C-620 4.1	Total/NA	Solid	5035	
MB 880-14280/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14280/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14280/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9100-A-41-C MS	Matrix Spike	Total/NA	Solid	5035	
880-9100-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 14294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-14294/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 14298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-1	C-379 4.1'	Total/NA	Solid	5035	
890-1686-2	C-382 4.1'	Total/NA	Solid	5035	
890-1686-3	C-344 4.1'	Total/NA	Solid	5035	
890-1686-4	C-631 3.5'	Total/NA	Solid	5035	
890-1686-5	C-632 3.5'	Total/NA	Solid	5035	
890-1686-6	C-621 3.5'	Total/NA	Solid	5035	
890-1686-7	C-607 3.5'	Total/NA	Solid	5035	
890-1686-8	C-630 4.1'	Total/NA	Solid	5035	
890-1686-9	C-617 4.1'	Total/NA	Solid	5035	
890-1686-10	C-618 4.1'	Total/NA	Solid	5035	
MB 880-14298/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14298/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14298/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1689-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
890-1689-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 14330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-11	C- 619 4.1'	Total/NA	Solid	8021B	14280
890-1686-12	C-620 4.1	Total/NA	Solid	8021B	14280
MB 880-14280/5-A	Method Blank	Total/NA	Solid	8021B	14280
MB 880-14294/5-A	Method Blank	Total/NA	Solid	8021B	14294
LCS 880-14280/1-A	Lab Control Sample	Total/NA	Solid	8021B	14280
LCSD 880-14280/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14280
880-9100-A-41-C MS	Matrix Spike	Total/NA	Solid	8021B	14280
880-9100-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14280

Analysis Batch: 14375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-1	C-379 4.1'	Total/NA	Solid	8021B	14298
890-1686-2	C-382 4.1'	Total/NA	Solid	8021B	14298
890-1686-3	C-344 4.1'	Total/NA	Solid	8021B	14298
890-1686-4	C-631 3.5'	Total/NA	Solid	8021B	14298
890-1686-5	C-632 3.5'	Total/NA	Solid	8021B	14298
890-1686-6	C-621 3.5'	Total/NA	Solid	8021B	14298
890-1686-7	C-607 3.5'	Total/NA	Solid	8021B	14298
890-1686-8	C-630 4.1'	Total/NA	Solid	8021B	14298

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 14375 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-9	C-617 4.1'	Total/NA	Solid	8021B	14298
890-1686-10	C-618 4.1'	Total/NA	Solid	8021B	14298
MB 880-14298/5-A	Method Blank	Total/NA	Solid	8021B	14298
LCS 880-14298/1-A	Lab Control Sample	Total/NA	Solid	8021B	14298
LCSD 880-14298/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14298
890-1689-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14298
890-1689-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	14298

Analysis Batch: 14648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-1	C-379 4.1'	Total/NA	Solid	Total BTEX	
890-1686-2	C-382 4.1'	Total/NA	Solid	Total BTEX	
890-1686-3	C-344 4.1'	Total/NA	Solid	Total BTEX	
890-1686-4	C-631 3.5'	Total/NA	Solid	Total BTEX	
890-1686-5	C-632 3.5'	Total/NA	Solid	Total BTEX	
890-1686-6	C-621 3.5'	Total/NA	Solid	Total BTEX	
890-1686-7	C-607 3.5'	Total/NA	Solid	Total BTEX	
890-1686-8	C-630 4.1'	Total/NA	Solid	Total BTEX	
890-1686-9	C-617 4.1'	Total/NA	Solid	Total BTEX	
890-1686-10	C-618 4.1'	Total/NA	Solid	Total BTEX	
890-1686-11	C- 619 4.1'	Total/NA	Solid	Total BTEX	
890-1686-12	C-620 4.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 14439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-1	C-379 4.1'	Total/NA	Solid	8015B NM	14448
890-1686-2	C-382 4.1'	Total/NA	Solid	8015B NM	14448
890-1686-3	C-344 4.1'	Total/NA	Solid	8015B NM	14448
890-1686-4	C-631 3.5'	Total/NA	Solid	8015B NM	14448
890-1686-5	C-632 3.5'	Total/NA	Solid	8015B NM	14448
890-1686-6	C-621 3.5'	Total/NA	Solid	8015B NM	14448
890-1686-7	C-607 3.5'	Total/NA	Solid	8015B NM	14448
890-1686-8	C-630 4.1'	Total/NA	Solid	8015B NM	14448
890-1686-9	C-617 4.1'	Total/NA	Solid	8015B NM	14448
890-1686-10	C-618 4.1'	Total/NA	Solid	8015B NM	14448
890-1686-11	C- 619 4.1'	Total/NA	Solid	8015B NM	14448
890-1686-12	C-620 4.1	Total/NA	Solid	8015B NM	14448
MB 880-14448/1-A	Method Blank	Total/NA	Solid	8015B NM	14448
LCS 880-14448/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14448
LCSD 880-14448/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14448
890-1686-1 MS	C-379 4.1'	Total/NA	Solid	8015B NM	14448
890-1686-1 MSD	C-379 4.1'	Total/NA	Solid	8015B NM	14448

Prep Batch: 14448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-1	C-379 4.1'	Total/NA	Solid	8015NM Prep	
890-1686-2	C-382 4.1'	Total/NA	Solid	8015NM Prep	
890-1686-3	C-344 4.1'	Total/NA	Solid	8015NM Prep	
890-1686-4	C-631 3.5'	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 14448 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-5	C-632 3.5'	Total/NA	Solid	8015NM Prep	
890-1686-6	C-621 3.5'	Total/NA	Solid	8015NM Prep	
890-1686-7	C-607 3.5'	Total/NA	Solid	8015NM Prep	
890-1686-8	C-630 4.1'	Total/NA	Solid	8015NM Prep	
890-1686-9	C-617 4.1'	Total/NA	Solid	8015NM Prep	
890-1686-10	C-618 4.1'	Total/NA	Solid	8015NM Prep	
890-1686-11	C- 619 4.1'	Total/NA	Solid	8015NM Prep	
890-1686-12	C-620 4.1	Total/NA	Solid	8015NM Prep	
MB 880-14448/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14448/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14448/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1686-1 MS	C-379 4.1'	Total/NA	Solid	8015NM Prep	
890-1686-1 MSD	C-379 4.1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 14652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-1	C-379 4.1'	Total/NA	Solid	8015 NM	
890-1686-2	C-382 4.1'	Total/NA	Solid	8015 NM	
890-1686-3	C-344 4.1'	Total/NA	Solid	8015 NM	
890-1686-4	C-631 3.5'	Total/NA	Solid	8015 NM	
890-1686-5	C-632 3.5'	Total/NA	Solid	8015 NM	
890-1686-6	C-621 3.5'	Total/NA	Solid	8015 NM	
890-1686-7	C-607 3.5'	Total/NA	Solid	8015 NM	
890-1686-8	C-630 4.1'	Total/NA	Solid	8015 NM	
890-1686-9	C-617 4.1'	Total/NA	Solid	8015 NM	
890-1686-10	C-618 4.1'	Total/NA	Solid	8015 NM	
890-1686-11	C- 619 4.1'	Total/NA	Solid	8015 NM	
890-1686-12	C-620 4.1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 14411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-1	C-379 4.1'	Soluble	Solid	DI Leach	
890-1686-2	C-382 4.1'	Soluble	Solid	DI Leach	
890-1686-3	C-344 4.1'	Soluble	Solid	DI Leach	
890-1686-4	C-631 3.5'	Soluble	Solid	DI Leach	
890-1686-5	C-632 3.5'	Soluble	Solid	DI Leach	
MB 880-14411/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14411/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14411/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1684-A-8-I MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1684-A-8-J MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 14496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-6	C-621 3.5'	Soluble	Solid	DI Leach	
890-1686-7	C-607 3.5'	Soluble	Solid	DI Leach	
890-1686-8	C-630 4.1'	Soluble	Solid	DI Leach	
890-1686-9	C-617 4.1'	Soluble	Solid	DI Leach	
890-1686-10	C-618 4.1'	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 14496 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-11	C- 619 4.1'	Soluble	Solid	DI Leach	
890-1686-12	C-620 4.1	Soluble	Solid	DI Leach	
MB 880-14496/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14496/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14496/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9122-A-6-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9122-A-6-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 14572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-1	C-379 4.1'	Soluble	Solid	300.0	14411
890-1686-2	C-382 4.1'	Soluble	Solid	300.0	14411
890-1686-3	C-344 4.1'	Soluble	Solid	300.0	14411
890-1686-4	C-631 3.5'	Soluble	Solid	300.0	14411
890-1686-5	C-632 3.5'	Soluble	Solid	300.0	14411
MB 880-14411/1-A	Method Blank	Soluble	Solid	300.0	14411
LCS 880-14411/2-A	Lab Control Sample	Soluble	Solid	300.0	14411
LCSD 880-14411/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14411
890-1684-A-8-I MS	Matrix Spike	Soluble	Solid	300.0	14411
890-1684-A-8-J MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14411

Analysis Batch: 14764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1686-6	C-621 3.5'	Soluble	Solid	300.0	14496
890-1686-7	C-607 3.5'	Soluble	Solid	300.0	14496
890-1686-8	C-630 4.1'	Soluble	Solid	300.0	14496
890-1686-9	C-617 4.1'	Soluble	Solid	300.0	14496
890-1686-10	C-618 4.1'	Soluble	Solid	300.0	14496
890-1686-11	C- 619 4.1'	Soluble	Solid	300.0	14496
890-1686-12	C-620 4.1	Soluble	Solid	300.0	14496
MB 880-14496/1-A	Method Blank	Soluble	Solid	300.0	14496
LCS 880-14496/2-A	Lab Control Sample	Soluble	Solid	300.0	14496
LCSD 880-14496/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14496
880-9122-A-6-G MS	Matrix Spike	Soluble	Solid	300.0	14496
880-9122-A-6-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14496

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C-379 4.1'

Lab Sample ID: 890-1686-1

Date Collected: 12/07/21 09:00

Matrix: Solid

Date Received: 12/07/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	14298	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14375	12/09/21 22:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14448	12/10/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/10/21 11:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	14411	12/09/21 16:58	CA	XEN MID
Soluble	Analysis	300.0		1			14572	12/12/21 18:26	CH	XEN MID

Client Sample ID: C-382 4.1'

Lab Sample ID: 890-1686-2

Date Collected: 12/07/21 09:01

Matrix: Solid

Date Received: 12/07/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	14298	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14375	12/09/21 23:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14448	12/10/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/10/21 13:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	14411	12/09/21 16:58	CA	XEN MID
Soluble	Analysis	300.0		1			14572	12/13/21 13:19	CH	XEN MID

Client Sample ID: C-344 4.1'

Lab Sample ID: 890-1686-3

Date Collected: 12/07/21 09:02

Matrix: Solid

Date Received: 12/07/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	14298	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14375	12/09/21 23:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14448	12/10/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/10/21 13:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14411	12/09/21 16:58	CA	XEN MID
Soluble	Analysis	300.0		1			14572	12/12/21 18:39	CH	XEN MID

Client Sample ID: C-631 3.5'

Lab Sample ID: 890-1686-4

Date Collected: 12/07/21 10:01

Matrix: Solid

Date Received: 12/07/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	14298	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14375	12/10/21 00:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:41	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C-631 3.5'

Date Collected: 12/07/21 10:01

Date Received: 12/07/21 15:00

Lab Sample ID: 890-1686-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14448	12/10/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/10/21 13:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	14411	12/09/21 16:58	CA	XEN MID
Soluble	Analysis	300.0		1			14572	12/12/21 18:46	CH	XEN MID

Client Sample ID: C-632 3.5'

Date Collected: 12/07/21 10:02

Date Received: 12/07/21 15:00

Lab Sample ID: 890-1686-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	14298	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14375	12/10/21 00:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	14448	12/10/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/10/21 14:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	14411	12/09/21 16:58	CA	XEN MID
Soluble	Analysis	300.0		1			14572	12/12/21 18:53	CH	XEN MID

Client Sample ID: C-621 3.5'

Date Collected: 12/07/21 11:04

Date Received: 12/07/21 15:00

Lab Sample ID: 890-1686-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	14298	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14375	12/10/21 00:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14448	12/10/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/10/21 14:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	14496	12/10/21 12:18	CH	XEN MID
Soluble	Analysis	300.0		1			14764	12/13/21 19:51	CH	XEN MID

Client Sample ID: C-607 3.5'

Date Collected: 12/07/21 11:06

Date Received: 12/07/21 15:00

Lab Sample ID: 890-1686-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	14298	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14375	12/10/21 01:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	14448	12/10/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/10/21 14:46	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C-607 3.5'

Date Collected: 12/07/21 11:06

Date Received: 12/07/21 15:00

Lab Sample ID: 890-1686-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	14496	12/10/21 12:18	CH	XEN MID
Soluble	Analysis	300.0		1			14764	12/13/21 20:00	CH	XEN MID

Client Sample ID: C-630 4.1'

Date Collected: 12/07/21 13:30

Date Received: 12/07/21 15:00

Lab Sample ID: 890-1686-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	14298	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14375	12/10/21 01:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14448	12/10/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/10/21 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	14496	12/10/21 12:18	CH	XEN MID
Soluble	Analysis	300.0		1			14764	12/13/21 20:08	CH	XEN MID

Client Sample ID: C-617 4.1'

Date Collected: 12/07/21 14:00

Date Received: 12/07/21 15:00

Lab Sample ID: 890-1686-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	14298	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14375	12/10/21 02:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14448	12/10/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/10/21 15:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	14496	12/10/21 12:18	CH	XEN MID
Soluble	Analysis	300.0		1			14764	12/13/21 20:16	CH	XEN MID

Client Sample ID: C-618 4.1'

Date Collected: 12/07/21 14:01

Date Received: 12/07/21 15:00

Lab Sample ID: 890-1686-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	14298	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14375	12/10/21 02:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14448	12/10/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/10/21 15:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	14496	12/10/21 12:18	CH	XEN MID
Soluble	Analysis	300.0		1			14764	12/13/21 20:25	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Client Sample ID: C- 619 4.1'

Lab Sample ID: 890-1686-11

Date Collected: 12/07/21 14:02

Matrix: Solid

Date Received: 12/07/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	14280	12/09/21 10:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14330	12/10/21 06:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14448	12/10/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/10/21 16:34	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	14496	12/10/21 12:18	CH	XEN MID
Soluble	Analysis	300.0		1			14764	12/13/21 20:33	CH	XEN MID

Client Sample ID: C-620 4.1

Lab Sample ID: 890-1686-12

Date Collected: 12/07/21 14:03

Matrix: Solid

Date Received: 12/07/21 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	14280	12/09/21 10:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14330	12/10/21 06:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14448	12/10/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/10/21 16:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	14496	12/10/21 12:18	CH	XEN MID
Soluble	Analysis	300.0		1			14764	12/13/21 20:42	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1686-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1686-1	C-379 4.1'	Solid	12/07/21 09:00	12/07/21 15:00	4.1
890-1686-2	C-382 4.1'	Solid	12/07/21 09:01	12/07/21 15:00	4.1
890-1686-3	C-344 4.1'	Solid	12/07/21 09:02	12/07/21 15:00	4.1
890-1686-4	C-631 3.5'	Solid	12/07/21 10:01	12/07/21 15:00	3.5
890-1686-5	C-632 3.5'	Solid	12/07/21 10:02	12/07/21 15:00	3.5
890-1686-6	C-621 3.5'	Solid	12/07/21 11:04	12/07/21 15:00	3.5
890-1686-7	C-607 3.5'	Solid	12/07/21 11:06	12/07/21 15:00	3.5
890-1686-8	C-630 4.1'	Solid	12/07/21 13:30	12/07/21 15:00	4.1
890-1686-9	C-617 4.1'	Solid	12/07/21 14:00	12/07/21 15:00	4.1
890-1686-10	C-618 4.1'	Solid	12/07/21 14:01	12/07/21 15:00	4.1
890-1686-11	C- 619 4.1'	Solid	12/07/21 14:02	12/07/21 15:00	4.1
890-1686-12	C-620 4.1	Solid	12/07/21 14:03	12/07/21 15:00	4.1

Data Reported to:

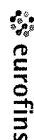
DATE: 12-7-21 PAGE 1 OF 1
PO#: LAB WORK ORDER#:
PROJECT LOCATION OR NAME: PALMVIEW AST
LAI PROJECT #: 31-0105-02 COLLECTOR: TP

CHAIN-OF-CUSTODY

No. 2320

[illegible]

Chain of Custody Record



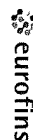
Environment Testing America

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax 575-988-3199

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s):	COC No:					
Client Contact:		Phone	Taylor, Holly		890-537 1					
Shipping/Receiving		E-Mail	holly.taylor@eurofinset.com	State of Origin:	Page: 1 of 2					
Company:	Eurofins Xenco	Accreditations Required (See note):	NE LAP - Louisiana, NE LAP - Texas	New Mexico	Page 1 of 2					
Address:	1211 W Florida Ave,	Due Date Requested	12/13/2021		Job #:					
City	Midland	TAT Requested (days):			890-1686-1					
State, Zip	TX, 79701									
Phone	432-704-5440 (Tel)	PO #:								
Email:		WO #:								
Project Name:	PALMO ASI	Project #:	89000025							
Site		SSOW#:								
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/ol, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
C-379 (890-1686-1)		12/7/21	09 00	Mountain	Solid		X	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH		
C-382 (890-1686-2)		12/7/21	09 01	Mountain	Solid		X	8016MOD_Calc		
C-344 (890-1686-3)		12/7/21	09 02	Mountain	Solid		X	300_ORGFWM_28D/DI_LEACH Chloride		
C-631 (890-1686-4)		12/7/21	10 01	Mountain	Solid		X	8021B/5035FP_Calc (MOD) BTEX - LL		
C-632 (890-1686-5)		12/7/21	10 02	Mountain	Solid		X	Total_BTEX_GCV		
C-621 (890-1686-6)		12/7/21	11 04	Mountain	Solid		X			
C-607 (890-1686-7)		12/7/21	11 06	Mountain	Solid		X			
C-630 (890-1686-8)		12/7/21	13 30	Mountain	Solid		X			
C-617 (890-1686-9)		12/7/21	14 00	Mountain	Solid		X			
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.										
Possible Hazard Identification		Unconfirmed		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Preservation Codes				
Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)				
Empty Kit Relinquished by		Date	Time	Method of Shipment:		Job #:				
Relinquished by	Chae	12-8-21		Received by	12/9/21	890-1686-1				
Relinquished by		Date/Time:	Company	Received by	Date/Time	Job #:				
Relinquished by		Date/Time	Company	Received by	Date/Time	890-1686-1				
Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:		29/3.0		10 IRG				
Δ Yes Δ No										

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1686-1

SDG Number: 21-0105-02

Login Number: 1686**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1686-1

SDG Number: 21-0105-02

Login Number: 1686**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Xenco, Midland****List Creation: 12/09/21 12:10 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1690-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: PALMIO AST
Revision: 1

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/6/2022 9:14:20 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Laboratory Job ID: 890-1690-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Job ID: 890-1690-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1690-1****Comments**

No additional comments.

Revision

The report being provided is a revision of the original report sent on 12/17/2021. The report (revision 1) is being revised due to: The report was revised to combine results with Job 2 per John White (email).

Receipt

The samples were received on 12/8/2021 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.2° C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):

Sample on COC: C-607 12-8-21 14:20

Sample in Jar: C-622 12-8-21 14:20 Based on this having the same time and it being the only sample not labeled it's safe to say these are the same samples

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-14598 and analytical batch 880-14592 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Narrative**Job Narrative
890-1690-2****Comments**

No additional comments.

Revision

The report being provided is a revision of the original report sent on 1/3/2022. The report (revision 1) is being revised due to: The report was revised to combine results with Job 1 per John White (email).

Receipt

The samples were received on 12/8/2021 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.2° C.

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Job ID: 890-1690-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):

Sample on COC: C-607 12-8-21 14:20

Sample in Jar: C-622 12-8-21 14:20 Based on this having the same time and it being the only sample not labeled it's safe to say these are the same samples

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-607

Lab Sample ID: 890-1690-1

Date Collected: 12/08/21 14:20

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/10/21 07:46	12/10/21 18:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/10/21 07:46	12/10/21 18:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/10/21 07:46	12/10/21 18:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/10/21 07:46	12/10/21 18:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/10/21 07:46	12/10/21 18:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/10/21 07:46	12/10/21 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	12/10/21 07:46	12/10/21 18:17	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/10/21 07:46	12/10/21 18:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/13/21 11:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 15:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 15:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	12/13/21 08:17	12/13/21 15:16	1
o-Terphenyl (Surr)	103		70 - 130	12/13/21 08:17	12/13/21 15:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		5.00	mg/Kg			12/16/21 01:46	1

Client Sample ID: C-604

Lab Sample ID: 890-1690-2

Date Collected: 12/08/21 09:01

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/10/21 07:46	12/10/21 18:37	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/10/21 07:46	12/10/21 18:37	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/10/21 07:46	12/10/21 18:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/10/21 07:46	12/10/21 18:37	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/10/21 07:46	12/10/21 18:37	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/10/21 07:46	12/10/21 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	12/10/21 07:46	12/10/21 18:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-604

Lab Sample ID: 890-1690-2

Date Collected: 12/08/21 09:01

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	12/10/21 07:46	12/10/21 18:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/13/21 11:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 15:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 15:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 15:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			12/13/21 08:17	12/13/21 15:37	1
o-Terphenyl (Surr)	98		70 - 130			12/13/21 08:17	12/13/21 15:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	441		5.02	mg/Kg			01/03/22 13:58	1

Client Sample ID: C-603

Lab Sample ID: 890-1690-3

Date Collected: 12/08/21 09:02

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/10/21 07:46	12/10/21 18:57	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/10/21 07:46	12/10/21 18:57	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/10/21 07:46	12/10/21 18:57	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/10/21 07:46	12/10/21 18:57	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/10/21 07:46	12/10/21 18:57	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/10/21 07:46	12/10/21 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	12/10/21 07:46	12/10/21 18:57	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/10/21 07:46	12/10/21 18:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/13/21 11:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-603

Lab Sample ID: 890-1690-3

Date Collected: 12/08/21 09:02

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/13/21 08:17	12/13/21 15:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/13/21 08:17	12/13/21 15:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/13/21 08:17	12/13/21 15:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			12/13/21 08:17	12/13/21 15:58	1
o-Terphenyl (Surr)	101		70 - 130			12/13/21 08:17	12/13/21 15:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	428		4.97	mg/Kg			01/03/22 14:09	1

Client Sample ID: C-597

Lab Sample ID: 890-1690-4

Date Collected: 12/08/21 09:03

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/10/21 12:00	12/10/21 14:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/10/21 12:00	12/10/21 14:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/10/21 12:00	12/10/21 14:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/10/21 12:00	12/10/21 14:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/10/21 12:00	12/10/21 14:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/10/21 12:00	12/10/21 14:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			12/10/21 12:00	12/10/21 14:01	1
1,4-Difluorobenzene (Surr)	96		70 - 130			12/10/21 12:00	12/10/21 14:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/13/21 11:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 16:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 16:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 16:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			12/13/21 08:17	12/13/21 16:18	1
o-Terphenyl (Surr)	96		70 - 130			12/13/21 08:17	12/13/21 16:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-597

Lab Sample ID: 890-1690-4

Date Collected: 12/08/21 09:03

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	296		4.95	mg/Kg			01/03/22 14:21	1

Client Sample ID: C-598

Lab Sample ID: 890-1690-5

Date Collected: 12/08/21 09:04

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 17:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 17:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 17:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/10/21 12:00	12/10/21 17:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 17:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/10/21 12:00	12/10/21 17:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			12/10/21 12:00	12/10/21 17:14	1
1,4-Difluorobenzene (Surr)	94		70 - 130			12/10/21 12:00	12/10/21 17:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/13/21 11:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 16:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 16:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			12/13/21 08:17	12/13/21 16:40	1
o-Terphenyl (Surr)	106		70 - 130			12/13/21 08:17	12/13/21 16:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	218		4.98	mg/Kg			01/03/22 14:33	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-599

Lab Sample ID: 890-1690-6

Date Collected: 12/08/21 09:05

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 17:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 17:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 17:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/10/21 12:00	12/10/21 17:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 17:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/10/21 12:00	12/10/21 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	12/10/21 12:00	12/10/21 17:34	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/10/21 12:00	12/10/21 17:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/13/21 11:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/13/21 08:17	12/13/21 17:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/13/21 08:17	12/13/21 17:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/13/21 08:17	12/13/21 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	12/13/21 08:17	12/13/21 17:00	1
o-Terphenyl (Surr)	94		70 - 130	12/13/21 08:17	12/13/21 17:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	287		4.99	mg/Kg			01/03/22 14:41	1

Client Sample ID: C-600

Lab Sample ID: 890-1690-7

Date Collected: 12/08/21 09:06

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/10/21 12:00	12/10/21 17:55	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/10/21 12:00	12/10/21 17:55	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/10/21 12:00	12/10/21 17:55	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/10/21 12:00	12/10/21 17:55	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/10/21 12:00	12/10/21 17:55	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/10/21 12:00	12/10/21 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/10/21 12:00	12/10/21 17:55	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-600

Lab Sample ID: 890-1690-7

Date Collected: 12/08/21 09:06

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	12/10/21 12:00	12/10/21 17:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/13/21 11:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/13/21 08:17	12/13/21 17:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/13/21 08:17	12/13/21 17:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/13/21 08:17	12/13/21 17:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			12/13/21 08:17	12/13/21 17:21	1
o-Terphenyl (Surr)	97		70 - 130			12/13/21 08:17	12/13/21 17:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	369		4.95	mg/Kg			01/03/22 15:05	1

Client Sample ID: C-594

Lab Sample ID: 890-1690-8

Date Collected: 12/08/21 09:07

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/10/21 12:00	12/10/21 18:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/10/21 12:00	12/10/21 18:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/10/21 12:00	12/10/21 18:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/10/21 12:00	12/10/21 18:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/10/21 12:00	12/10/21 18:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/10/21 12:00	12/10/21 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	12/10/21 12:00	12/10/21 18:15	1
1,4-Difluorobenzene (Surr)	126		70 - 130	12/10/21 12:00	12/10/21 18:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/13/21 11:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-594

Lab Sample ID: 890-1690-8

Date Collected: 12/08/21 09:07

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 17:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 17:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 17:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			12/13/21 08:17	12/13/21 17:42	1
o-Terphenyl (Surr)	102		70 - 130			12/13/21 08:17	12/13/21 17:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	485		4.98	mg/Kg			01/03/22 15:13	1

Client Sample ID: C-592

Lab Sample ID: 890-1690-9

Date Collected: 12/08/21 09:09

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/10/21 12:00	12/10/21 18:36	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/10/21 12:00	12/10/21 18:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/10/21 12:00	12/10/21 18:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/10/21 12:00	12/10/21 18:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/10/21 12:00	12/10/21 18:36	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/10/21 12:00	12/10/21 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			12/10/21 12:00	12/10/21 18:36	1
1,4-Difluorobenzene (Surr)	81		70 - 130			12/10/21 12:00	12/10/21 18:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/13/21 11:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/10/21 15:20	12/11/21 04:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/10/21 15:20	12/11/21 04:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/10/21 15:20	12/11/21 04:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			12/10/21 15:20	12/11/21 04:11	1
o-Terphenyl (Surr)	92		70 - 130			12/10/21 15:20	12/11/21 04:11	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-592

Lab Sample ID: 890-1690-9

Date Collected: 12/08/21 09:09

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	683		4.97	mg/Kg			01/03/22 15:21	1

Client Sample ID: C-566

Lab Sample ID: 890-1690-10

Date Collected: 12/08/21 10:00

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/10/21 12:00	12/10/21 18:56	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/10/21 12:00	12/10/21 18:56	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/10/21 12:00	12/10/21 18:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/10/21 12:00	12/10/21 18:56	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/10/21 12:00	12/10/21 18:56	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/10/21 12:00	12/10/21 18:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			12/10/21 12:00	12/10/21 18:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/10/21 12:00	12/10/21 18:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/13/21 11:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/10/21 15:20	12/11/21 04:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/10/21 15:20	12/11/21 04:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/10/21 15:20	12/11/21 04:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			12/10/21 15:20	12/11/21 04:33	1
o-Terphenyl (Surr)	83		70 - 130			12/10/21 15:20	12/11/21 04:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.5		5.01	mg/Kg			01/03/22 15:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-562

Lab Sample ID: 890-1690-11

Date Collected: 12/08/21 10:01

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 19:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 19:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 19:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/10/21 12:00	12/10/21 19:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 19:17	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/10/21 12:00	12/10/21 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	12/10/21 12:00	12/10/21 19:17	1
1,4-Difluorobenzene (Surr)	82		70 - 130	12/10/21 12:00	12/10/21 19:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/13/21 11:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/10/21 15:20	12/11/21 04:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/10/21 15:20	12/11/21 04:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/10/21 15:20	12/11/21 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	12/10/21 15:20	12/11/21 04:54	1
o-Terphenyl (Surr)	92		70 - 130	12/10/21 15:20	12/11/21 04:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	312		4.98	mg/Kg			01/03/22 15:52	1

Client Sample ID: C-899

Lab Sample ID: 890-1690-12

Date Collected: 12/08/21 13:00

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 19:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 19:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 19:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/10/21 12:00	12/10/21 19:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/10/21 12:00	12/10/21 19:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/10/21 12:00	12/10/21 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	12/10/21 12:00	12/10/21 19:37	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-899

Lab Sample ID: 890-1690-12

Date Collected: 12/08/21 13:00

Matrix: Solid

Date Received: 12/08/21 15:30

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	77		70 - 130	12/10/21 12:00	12/10/21 19:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/13/21 11:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/10/21 15:20	12/11/21 05:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/10/21 15:20	12/11/21 05:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/10/21 15:20	12/11/21 05:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			12/10/21 15:20	12/11/21 05:16	1
o-Terphenyl (Surr)	93		70 - 130			12/10/21 15:20	12/11/21 05:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	407		5.05	mg/Kg			01/03/22 16:00	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-9152-A-3-C MS	Matrix Spike	105	103
880-9152-A-3-D MSD	Matrix Spike Duplicate	106	105
880-9178-A-1-C MS	Matrix Spike	105	100
880-9178-A-1-D MSD	Matrix Spike Duplicate	120	104
890-1690-1	C-607	122	103
890-1690-2	C-604	106	89
890-1690-3	C-603	125	104
890-1690-4	C-597	115	96
890-1690-5	C-598	107	94
890-1690-6	C-599	106	89
890-1690-7	C-600	112	106
890-1690-8	C-594	147 S1+	126
890-1690-9	C-592	122	81
890-1690-10	C-566	116	100
890-1690-11	C-562	109	82
890-1690-12	C-899	101	77
LCS 880-14442/1-A	Lab Control Sample	103	104
LCS 880-14443/1-A	Lab Control Sample	109	101
LCSD 880-14442/2-A	Lab Control Sample Dup	101	101
LCSD 880-14443/2-A	Lab Control Sample Dup	105	92
MB 880-14442/5-A	Method Blank	105	97
MB 880-14443/5-A	Method Blank	116	97
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-9168-A-1-C MS	Matrix Spike	90	83
880-9168-A-1-D MSD	Matrix Spike Duplicate	92	70
890-1690-1	C-607	97	103
890-1690-2	C-604	90	98
890-1690-3	C-603	94	101
890-1690-4	C-597	88	96
890-1690-5	C-598	97	106
890-1690-6	C-599	84	94
890-1690-7	C-600	89	97
890-1690-8	C-594	91	102
890-1690-9	C-592	91	92
890-1690-10	C-566	84	83
890-1690-11	C-562	92	92
890-1690-12	C-899	89	93
890-1696-A-11-E MS	Matrix Spike	85	82
890-1696-A-11-F MSD	Matrix Spike Duplicate	86	85
LCS 880-14598/2-A	Lab Control Sample	110	110

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
LCSD 880-14598/3-A	Lab Control Sample Dup	107	113
MB 880-14598/1-A	Method Blank	104	119

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-14526/2-A	Lab Control Sample	98	109
LCSD 880-14526/3-A	Lab Control Sample Dup	115	112
MB 880-14526/1-A	Method Blank	104	117

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14442/5-A

Matrix: Solid

Analysis Batch: 14444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14442

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/10/21 07:46	12/10/21 11:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/10/21 07:46	12/10/21 11:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/10/21 07:46	12/10/21 11:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/10/21 07:46	12/10/21 11:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/10/21 07:46	12/10/21 11:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/10/21 07:46	12/10/21 11:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	12/10/21 07:46	12/10/21 11:05	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/10/21 07:46	12/10/21 11:05	1

Lab Sample ID: LCS 880-14442/1-A

Matrix: Solid

Analysis Batch: 14444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09369		mg/Kg		94	70 - 130
Toluene	0.100	0.08728		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08707		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1800		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08710		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-14442/2-A

Matrix: Solid

Analysis Batch: 14444

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14442

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09776		mg/Kg		98	70 - 130	4	35
Toluene	0.100	0.08935		mg/Kg		89	70 - 130	2	35
Ethylbenzene	0.100	0.08726		mg/Kg		87	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1813		mg/Kg		91	70 - 130	1	35
o-Xylene	0.100	0.08913		mg/Kg		89	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-9152-A-3-C MS

Matrix: Solid

Analysis Batch: 14444

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0992	0.1009		mg/Kg		101	70 - 130
Toluene	<0.00199	U	0.0992	0.09242		mg/Kg		92	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-9152-A-3-C MS

Matrix: Solid

Analysis Batch: 14444

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U	0.0992	0.08922		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1859		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U	0.0992	0.09189		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-9152-A-3-D MSD

Matrix: Solid

Analysis Batch: 14444

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14442

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.1023		mg/Kg		102	70 - 130	1	35
Toluene	<0.00199	U	0.100	0.09408		mg/Kg		93	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.09326		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1915		mg/Kg		95	70 - 130	3	35
o-Xylene	<0.00199	U	0.100	0.09356		mg/Kg		93	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-14443/5-A

Matrix: Solid

Analysis Batch: 14445

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14443

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/10/21 07:49	12/10/21 11:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/10/21 07:49	12/10/21 11:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/10/21 07:49	12/10/21 11:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/10/21 07:49	12/10/21 11:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/10/21 07:49	12/10/21 11:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/10/21 07:49	12/10/21 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/10/21 07:49	12/10/21 11:12	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/10/21 07:49	12/10/21 11:12	1

Lab Sample ID: LCS 880-14443/1-A

Matrix: Solid

Analysis Batch: 14445

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09859		mg/Kg		99	70 - 130
Toluene	0.100	0.1026		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1976		mg/Kg		99	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-14443/1-A

Matrix: Solid

Analysis Batch: 14445

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.09690		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-14443/2-A

Matrix: Solid

Analysis Batch: 14445

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14443

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09444		mg/Kg		94	70 - 130	4	35
Toluene	0.100	0.09585		mg/Kg		96	70 - 130	7	35
Ethylbenzene	0.100	0.09857		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1930		mg/Kg		97	70 - 130	2	35
o-Xylene	0.100	0.09276		mg/Kg		93	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-9178-A-1-C MS

Matrix: Solid

Analysis Batch: 14445

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14443

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.101	0.1002		mg/Kg		100	70 - 130
Toluene	<0.00201	U	0.101	0.09856		mg/Kg		98	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.09649		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1886		mg/Kg		94	70 - 130
o-Xylene	<0.00201	U	0.101	0.09093		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-9178-A-1-D MSD

Matrix: Solid

Analysis Batch: 14445

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14443

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.1085		mg/Kg		108	70 - 130	8	35
Toluene	<0.00201	U	0.100	0.1087		mg/Kg		108	70 - 130	10	35
Ethylbenzene	<0.00201	U	0.100	0.1139		mg/Kg		114	70 - 130	17	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2221		mg/Kg		111	70 - 130	16	35
o-Xylene	<0.00201	U	0.100	0.1047		mg/Kg		105	70 - 130	14	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-9178-A-1-D MSD

Matrix: Solid

Analysis Batch: 14445

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14443

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-14526/1-A

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14526

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/10/21 15:20	12/10/21 21:07	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/10/21 15:20	12/10/21 21:07	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/10/21 15:20	12/10/21 21:07	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1-Chlorooctane (Surr)	104		70 - 130			12/10/21 15:20	12/10/21 21:07	1	
o-Terphenyl (Surr)	117		70 - 130			12/10/21 15:20	12/10/21 21:07	1	

Lab Sample ID: LCS 880-14526/2-A

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14526

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	839.8		mg/Kg		84		70 - 130	
Diesel Range Organics (Over C10-C28)	1000	971.0		mg/Kg		97		70 - 130	
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	98		70 - 130						
o-Terphenyl (Surr)	109		70 - 130						

Lab Sample ID: LCSD 880-14526/3-A

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14526

Analyte	Spike	LCSD	LCSD						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	888.4		mg/Kg		89		6	20
Diesel Range Organics (Over C10-C28)	1000	949.8		mg/Kg		95		2	20
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	115		70 - 130						
o-Terphenyl (Surr)	112		70 - 130						

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-9168-A-1-C MS

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1194		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	271	F1	997	1617	F1	mg/Kg		135	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	90		70 - 130						
o-Terphenyl (Surr)	83		70 - 130						

Lab Sample ID: 880-9168-A-1-D MSD

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1251		mg/Kg		125	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	271	F1	999	1499		mg/Kg		123	70 - 130	8	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	92		70 - 130								
o-Terphenyl (Surr)	70		70 - 130								

Lab Sample ID: MB 880-14598/1-A

Matrix: Solid

Analysis Batch: 14592

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14598

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 09:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 09:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 09:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			12/13/21 08:17	12/13/21 09:22	1
o-Terphenyl (Surr)	119		70 - 130			12/13/21 08:17	12/13/21 09:22	1

Lab Sample ID: LCS 880-14598/2-A

Matrix: Solid

Analysis Batch: 14592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	925.0		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1066		mg/Kg		107	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-14598/2-A

Matrix: Solid

Analysis Batch: 14592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14598

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-14598/3-A

Matrix: Solid

Analysis Batch: 14592

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14598

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	857.8		mg/Kg		86	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	995.9		mg/Kg		100	70 - 130	7	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	113		70 - 130

Lab Sample ID: 890-1696-A-11-E MS

Matrix: Solid

Analysis Batch: 14592

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14598

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1321	F1	mg/Kg		132	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	1310	F1	mg/Kg		131	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	85		70 - 130
o-Terphenyl (Surr)	82		70 - 130

Lab Sample ID: 890-1696-A-11-F MSD

Matrix: Solid

Analysis Batch: 14592

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14598

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	1324	F1	mg/Kg		132	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1355	F1	mg/Kg		136	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	86		70 - 130
o-Terphenyl (Surr)	85		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14831/1-A

Matrix: Solid

Analysis Batch: 14924

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/15/21 21:36	1

Lab Sample ID: LCS 880-14831/2-A

Matrix: Solid

Analysis Batch: 14924

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	262.2		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-14831/3-A

Matrix: Solid

Analysis Batch: 14924

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	262.6		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-9270-A-23-F MS

Matrix: Solid

Analysis Batch: 14924

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	363		248	606.3		mg/Kg		98	90 - 110

Lab Sample ID: 880-9270-A-23-G MSD

Matrix: Solid

Analysis Batch: 14924

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	363		248	608.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-15704/1-A

Matrix: Solid

Analysis Batch: 15915

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/03/22 08:37	1

Lab Sample ID: LCS 880-15704/2-A

Matrix: Solid

Analysis Batch: 15915

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	225.6		mg/Kg		90	90 - 110

Lab Sample ID: LCSD 880-15704/3-A

Matrix: Solid

Analysis Batch: 15915

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	225.7		mg/Kg		90	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-9742-A-4-B MS

Matrix: Solid

Analysis Batch: 15915

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	269		248	518.3		mg/Kg		101	90 - 110

Lab Sample ID: 880-9742-A-4-C MSD

Matrix: Solid

Analysis Batch: 15915

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	269		248	522.5		mg/Kg		102	90 - 110	1	20

Lab Sample ID: MB 880-15705/1-A

Matrix: Solid

Analysis Batch: 15917

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/03/22 13:00	1

Lab Sample ID: LCS 880-15705/2-A

Matrix: Solid

Analysis Batch: 15917

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-15705/3-A

Matrix: Solid

Analysis Batch: 15917

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	246.6		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-1690-6 MS

Matrix: Solid

Analysis Batch: 15917

Client Sample ID: C-599

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	287		250	519.8		mg/Kg		93	90 - 110

Lab Sample ID: 890-1690-6 MSD

Matrix: Solid

Analysis Batch: 15917

Client Sample ID: C-599

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	287		250	514.3		mg/Kg		91	90 - 110	1	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

GC VOA

Prep Batch: 14442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-1	C-607	Total/NA	Solid	5035	
890-1690-2	C-604	Total/NA	Solid	5035	
890-1690-3	C-603	Total/NA	Solid	5035	
MB 880-14442/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14442/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14442/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9152-A-3-C MS	Matrix Spike	Total/NA	Solid	5035	
880-9152-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 14443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-4	C-597	Total/NA	Solid	5035	
890-1690-5	C-598	Total/NA	Solid	5035	
890-1690-6	C-599	Total/NA	Solid	5035	
890-1690-7	C-600	Total/NA	Solid	5035	
890-1690-8	C-594	Total/NA	Solid	5035	
890-1690-9	C-592	Total/NA	Solid	5035	
890-1690-10	C-566	Total/NA	Solid	5035	
890-1690-11	C-562	Total/NA	Solid	5035	
890-1690-12	C-899	Total/NA	Solid	5035	
MB 880-14443/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14443/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14443/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9178-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-9178-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 14444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-1	C-607	Total/NA	Solid	8021B	14442
890-1690-2	C-604	Total/NA	Solid	8021B	14442
890-1690-3	C-603	Total/NA	Solid	8021B	14442
MB 880-14442/5-A	Method Blank	Total/NA	Solid	8021B	14442
LCS 880-14442/1-A	Lab Control Sample	Total/NA	Solid	8021B	14442
LCSD 880-14442/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14442
880-9152-A-3-C MS	Matrix Spike	Total/NA	Solid	8021B	14442
880-9152-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14442

Analysis Batch: 14445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-4	C-597	Total/NA	Solid	8021B	14443
890-1690-5	C-598	Total/NA	Solid	8021B	14443
890-1690-6	C-599	Total/NA	Solid	8021B	14443
890-1690-7	C-600	Total/NA	Solid	8021B	14443
890-1690-8	C-594	Total/NA	Solid	8021B	14443
890-1690-9	C-592	Total/NA	Solid	8021B	14443
890-1690-10	C-566	Total/NA	Solid	8021B	14443
890-1690-11	C-562	Total/NA	Solid	8021B	14443
890-1690-12	C-899	Total/NA	Solid	8021B	14443
MB 880-14443/5-A	Method Blank	Total/NA	Solid	8021B	14443
LCS 880-14443/1-A	Lab Control Sample	Total/NA	Solid	8021B	14443
LCSD 880-14443/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14443

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 14445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9178-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	14443
880-9178-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14443

Analysis Batch: 14648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-1	C-607	Total/NA	Solid	Total BTEX	
890-1690-2	C-604	Total/NA	Solid	Total BTEX	
890-1690-3	C-603	Total/NA	Solid	Total BTEX	
890-1690-4	C-597	Total/NA	Solid	Total BTEX	
890-1690-5	C-598	Total/NA	Solid	Total BTEX	
890-1690-6	C-599	Total/NA	Solid	Total BTEX	
890-1690-7	C-600	Total/NA	Solid	Total BTEX	
890-1690-8	C-594	Total/NA	Solid	Total BTEX	
890-1690-9	C-592	Total/NA	Solid	Total BTEX	
890-1690-10	C-566	Total/NA	Solid	Total BTEX	
890-1690-11	C-562	Total/NA	Solid	Total BTEX	
890-1690-12	C-899	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 14439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-9	C-592	Total/NA	Solid	8015B NM	14526
890-1690-10	C-566	Total/NA	Solid	8015B NM	14526
890-1690-11	C-562	Total/NA	Solid	8015B NM	14526
890-1690-12	C-899	Total/NA	Solid	8015B NM	14526
MB 880-14526/1-A	Method Blank	Total/NA	Solid	8015B NM	14526
LCS 880-14526/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14526
LCSD 880-14526/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14526
880-9168-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	14526
880-9168-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14526

Prep Batch: 14526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-9	C-592	Total/NA	Solid	8015NM Prep	
890-1690-10	C-566	Total/NA	Solid	8015NM Prep	
890-1690-11	C-562	Total/NA	Solid	8015NM Prep	
890-1690-12	C-899	Total/NA	Solid	8015NM Prep	
MB 880-14526/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14526/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14526/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9168-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9168-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 14592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-1	C-607	Total/NA	Solid	8015B NM	14598
890-1690-2	C-604	Total/NA	Solid	8015B NM	14598
890-1690-3	C-603	Total/NA	Solid	8015B NM	14598
890-1690-4	C-597	Total/NA	Solid	8015B NM	14598
890-1690-5	C-598	Total/NA	Solid	8015B NM	14598

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 14592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-6	C-599	Total/NA	Solid	8015B NM	14598
890-1690-7	C-600	Total/NA	Solid	8015B NM	14598
890-1690-8	C-594	Total/NA	Solid	8015B NM	14598
MB 880-14598/1-A	Method Blank	Total/NA	Solid	8015B NM	14598
LCS 880-14598/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14598
LCSD 880-14598/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14598
890-1696-A-11-E MS	Matrix Spike	Total/NA	Solid	8015B NM	14598
890-1696-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14598

Prep Batch: 14598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-1	C-607	Total/NA	Solid	8015NM Prep	
890-1690-2	C-604	Total/NA	Solid	8015NM Prep	
890-1690-3	C-603	Total/NA	Solid	8015NM Prep	
890-1690-4	C-597	Total/NA	Solid	8015NM Prep	
890-1690-5	C-598	Total/NA	Solid	8015NM Prep	
890-1690-6	C-599	Total/NA	Solid	8015NM Prep	
890-1690-7	C-600	Total/NA	Solid	8015NM Prep	
890-1690-8	C-594	Total/NA	Solid	8015NM Prep	
MB 880-14598/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14598/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14598/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1696-A-11-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1696-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 14652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-1	C-607	Total/NA	Solid	8015 NM	
890-1690-2	C-604	Total/NA	Solid	8015 NM	
890-1690-3	C-603	Total/NA	Solid	8015 NM	
890-1690-4	C-597	Total/NA	Solid	8015 NM	
890-1690-5	C-598	Total/NA	Solid	8015 NM	
890-1690-6	C-599	Total/NA	Solid	8015 NM	
890-1690-7	C-600	Total/NA	Solid	8015 NM	
890-1690-8	C-594	Total/NA	Solid	8015 NM	
890-1690-9	C-592	Total/NA	Solid	8015 NM	
890-1690-10	C-566	Total/NA	Solid	8015 NM	
890-1690-11	C-562	Total/NA	Solid	8015 NM	
890-1690-12	C-899	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 14831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-1	C-607	Soluble	Solid	DI Leach	
MB 880-14831/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14831/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14831/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9270-A-23-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9270-A-23-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 14924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-1	C-607	Soluble	Solid	300.0	14831
MB 880-14831/1-A	Method Blank	Soluble	Solid	300.0	14831
LCS 880-14831/2-A	Lab Control Sample	Soluble	Solid	300.0	14831
LCSD 880-14831/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14831
880-9270-A-23-F MS	Matrix Spike	Soluble	Solid	300.0	14831
880-9270-A-23-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14831

Leach Batch: 15704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-2	C-604	Soluble	Solid	DI Leach	
890-1690-3	C-603	Soluble	Solid	DI Leach	
890-1690-4	C-597	Soluble	Solid	DI Leach	
890-1690-5	C-598	Soluble	Solid	DI Leach	
MB 880-15704/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15704/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15704/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9742-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9742-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 15705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-6	C-599	Soluble	Solid	DI Leach	
890-1690-7	C-600	Soluble	Solid	DI Leach	
890-1690-8	C-594	Soluble	Solid	DI Leach	
890-1690-9	C-592	Soluble	Solid	DI Leach	
890-1690-10	C-566	Soluble	Solid	DI Leach	
890-1690-11	C-562	Soluble	Solid	DI Leach	
890-1690-12	C-899	Soluble	Solid	DI Leach	
MB 880-15705/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15705/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15705/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1690-6 MS	C-599	Soluble	Solid	DI Leach	
890-1690-6 MSD	C-599	Soluble	Solid	DI Leach	

Analysis Batch: 15915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-2	C-604	Soluble	Solid	300.0	15704
890-1690-3	C-603	Soluble	Solid	300.0	15704
890-1690-4	C-597	Soluble	Solid	300.0	15704
890-1690-5	C-598	Soluble	Solid	300.0	15704
MB 880-15704/1-A	Method Blank	Soluble	Solid	300.0	15704
LCS 880-15704/2-A	Lab Control Sample	Soluble	Solid	300.0	15704
LCSD 880-15704/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15704
880-9742-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	15704
880-9742-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15704

Analysis Batch: 15917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-6	C-599	Soluble	Solid	300.0	15705
890-1690-7	C-600	Soluble	Solid	300.0	15705
890-1690-8	C-594	Soluble	Solid	300.0	15705

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 15917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1690-9	C-592	Soluble	Solid	300.0	15705
890-1690-10	C-566	Soluble	Solid	300.0	15705
890-1690-11	C-562	Soluble	Solid	300.0	15705
890-1690-12	C-899	Soluble	Solid	300.0	15705
MB 880-15705/1-A	Method Blank	Soluble	Solid	300.0	15705
LCS 880-15705/2-A	Lab Control Sample	Soluble	Solid	300.0	15705
LCSD 880-15705/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15705
890-1690-6 MS	C-599	Soluble	Solid	300.0	15705
890-1690-6 MSD	C-599	Soluble	Solid	300.0	15705

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-607

Lab Sample ID: 890-1690-1

Date Collected: 12/08/21 14:20

Matrix: Solid

Date Received: 12/08/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	14442	12/10/21 07:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14444	12/10/21 18:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14592	12/13/21 15:16	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	14831	12/15/21 11:22	CA	XEN MID
Soluble	Analysis	300.0		1			14924	12/16/21 01:46	CH	XEN MID

Client Sample ID: C-604

Lab Sample ID: 890-1690-2

Date Collected: 12/08/21 09:01

Matrix: Solid

Date Received: 12/08/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	14442	12/10/21 07:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14444	12/10/21 18:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14592	12/13/21 15:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	15704	12/29/21 08:44	CH	XEN MID
Soluble	Analysis	300.0		1			15915	01/03/22 13:58	CH	XEN MID

Client Sample ID: C-603

Lab Sample ID: 890-1690-3

Date Collected: 12/08/21 09:02

Matrix: Solid

Date Received: 12/08/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	14442	12/10/21 07:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14444	12/10/21 18:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14592	12/13/21 15:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	15704	12/29/21 08:44	CH	XEN MID
Soluble	Analysis	300.0		1			15915	01/03/22 14:09	CH	XEN MID

Client Sample ID: C-597

Lab Sample ID: 890-1690-4

Date Collected: 12/08/21 09:03

Matrix: Solid

Date Received: 12/08/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	14443	12/10/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14445	12/10/21 14:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:53	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-597

Date Collected: 12/08/21 09:03

Date Received: 12/08/21 15:30

Lab Sample ID: 890-1690-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14592	12/13/21 16:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	15704	12/29/21 08:44	CH	XEN MID
Soluble	Analysis	300.0		1			15915	01/03/22 14:21	CH	XEN MID

Client Sample ID: C-598

Date Collected: 12/08/21 09:04

Date Received: 12/08/21 15:30

Lab Sample ID: 890-1690-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	14443	12/10/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14445	12/10/21 17:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14592	12/13/21 16:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	15704	12/29/21 08:44	CH	XEN MID
Soluble	Analysis	300.0		1			15915	01/03/22 14:33	CH	XEN MID

Client Sample ID: C-599

Date Collected: 12/08/21 09:05

Date Received: 12/08/21 15:30

Lab Sample ID: 890-1690-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	14443	12/10/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14445	12/10/21 17:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14592	12/13/21 17:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15705	12/29/21 08:46	CH	XEN MID
Soluble	Analysis	300.0		1			15917	01/03/22 14:41	CH	XEN MID

Client Sample ID: C-600

Date Collected: 12/08/21 09:06

Date Received: 12/08/21 15:30

Lab Sample ID: 890-1690-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	14443	12/10/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14445	12/10/21 17:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14592	12/13/21 17:21	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-600

Date Collected: 12/08/21 09:06

Date Received: 12/08/21 15:30

Lab Sample ID: 890-1690-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	15705	12/29/21 08:46	CH	XEN MID
Soluble	Analysis	300.0		1			15917	01/03/22 15:05	CH	XEN MID

Client Sample ID: C-594

Date Collected: 12/08/21 09:07

Date Received: 12/08/21 15:30

Lab Sample ID: 890-1690-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	14443	12/10/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14445	12/10/21 18:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14592	12/13/21 17:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	15705	12/29/21 08:46	CH	XEN MID
Soluble	Analysis	300.0		1			15917	01/03/22 15:13	CH	XEN MID

Client Sample ID: C-592

Date Collected: 12/08/21 09:09

Date Received: 12/08/21 15:30

Lab Sample ID: 890-1690-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	14443	12/10/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14445	12/10/21 18:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	14526	12/10/21 15:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/11/21 04:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	15705	12/29/21 08:46	CH	XEN MID
Soluble	Analysis	300.0		1			15917	01/03/22 15:21	CH	XEN MID

Client Sample ID: C-566

Date Collected: 12/08/21 10:00

Date Received: 12/08/21 15:30

Lab Sample ID: 890-1690-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	14443	12/10/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14445	12/10/21 18:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14526	12/10/21 15:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/11/21 04:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	15705	12/29/21 08:46	CH	XEN MID
Soluble	Analysis	300.0		1			15917	01/03/22 15:28	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Client Sample ID: C-562

Lab Sample ID: 890-1690-11

Date Collected: 12/08/21 10:01

Matrix: Solid

Date Received: 12/08/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	14443	12/10/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14445	12/10/21 19:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14526	12/10/21 15:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/11/21 04:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	15705	12/29/21 08:46	CH	XEN MID
Soluble	Analysis	300.0		1			15917	01/03/22 15:52	CH	XEN MID

Client Sample ID: C-899

Lab Sample ID: 890-1690-12

Date Collected: 12/08/21 13:00

Matrix: Solid

Date Received: 12/08/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	14443	12/10/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14445	12/10/21 19:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14648	12/13/21 11:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14526	12/10/21 15:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14439	12/11/21 05:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	15705	12/29/21 08:46	CH	XEN MID
Soluble	Analysis	300.0		1			15917	01/03/22 16:00	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1690-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1690-1	C-607	Solid	12/08/21 14:20	12/08/21 15:30	4.1
890-1690-2	C-604	Solid	12/08/21 09:01	12/08/21 15:30	3.5
890-1690-3	C-603	Solid	12/08/21 09:02	12/08/21 15:30	3.5
890-1690-4	C-597	Solid	12/08/21 09:03	12/08/21 15:30	3.5
890-1690-5	C-598	Solid	12/08/21 09:04	12/08/21 15:30	3.5
890-1690-6	C-599	Solid	12/08/21 09:05	12/08/21 15:30	3.5
890-1690-7	C-600	Solid	12/08/21 09:06	12/08/21 15:30	3.5
890-1690-8	C-594	Solid	12/08/21 09:07	12/08/21 15:30	3.5
890-1690-9	C-592	Solid	12/08/21 09:09	12/08/21 15:30	3.5
890-1690-10	C-566	Solid	12/08/21 10:00	12/08/21 15:30	3.5
890-1690-11	C-562	Solid	12/08/21 10:01	12/08/21 15:30	3.5
890-1690-12	C-899	Solid	12/08/21 13:00	12/08/21 15:30	4.1

Parson & Associates, Inc.

Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 12-8-21 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: 81mm045t

PROJECT LOCATION OR NAME: Blm045t

LAI PROJECT #: 21-0105-02 COLLECTOR: TP

Data Reported to: _____

TRRP report? ☐ Yes ☒ No

TIME ZONE
Time zone/State
MST/AM

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

PRESERVATION

HCl ☐ HNO₃ ☐ H₂SO₄ ☐ NaOH ☐ ICE ☐ UNPRESERVED ☐

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	ANALYSES		FIELD NOTES
C-607 4.1'		12-8-21	1420	S	1	☒ BTEX ☒ MTBE ☒ TRPH 418.1 ☒ TPH 1005 ☒ TPH 1006 ☒ GASOLINE MOD 8015 ☒ DIESEL - MOD 8015 ☒ OIL - MOD 8015 ☒ VOC 8280 ☒ SVOC 8270 ☒ PAH 8270 ☒ HOLDPAH ☒ 8081 PESTICIDES ☒ 8082 PESTICIDES ☒ 8151 HERBICIDES ☒ TCIP - METALS (RCRA) ☒ TCIP - PEST ☒ HERB ☒ Sem-VOC ☒ TOTAL METALS (RCRA) ☒ OTHER LIST ☒ LEAD - TOTAL ☒ DW 200.8 ☒ TCIP ☒ RCI ☒ TOX ☒ FLASHPOINT ☒ TDS ☒ JTSS ☒ % MOISTURE ☒ CYANIDE ☒ PH ☒ HEXAVALENT CHROMIUM ☒ EXPLOSIVES ☒ PCHLORATE ☒ CHLORIDE ☒ ANIONS ☒ ALKALINITY ☒		
C-604 3.5'			0902					
C-603 3.5'			0903					
C-597 3.5'			0904					
C-598 3.5'			0905					
C-599 3.5'			0906					
C-594 3.5'			0907					
C-592 4.5'			0909					
C-566 3.5'			1000					
C-562 3.5'			1001					
C-899 4.1'			1300					
TOTAL 12								

RELINQUISHED BY (Signature) [Signature] DATE/TIME 12-8-21 330

RELINQUISHED BY (Signature) _____ DATE/TIME _____

RELINQUISHED BY (Signature) _____ DATE/TIME _____

LABORATORY _____

RECEIVED BY (Signature) [Signature] DATE/TIME 12-8-21 330

RECEIVED BY (Signature) _____ DATE/TIME _____

RECEIVED BY (Signature) _____ DATE/TIME _____

TURN AROUND TIME
NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐

LABORATORY USED 21-4 CUP -0.2

RECEIVING TEMP. 21.4 THERM# TM-009

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED

☒ CARRIER BILL # _____

☒ HAND DELIVERED CUP-Dealing In Process



890-1690 Chain of Custody

1
2
3
4
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6
7
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11
12
13
14

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



eurofins

Environment Testing
America

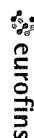
Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:					
Client Contact:	Phone	Taylor, Holly			890-540 1					
Shipping/Receiving	E-Mail	holly.taylor@eurofinsnet.com	State of Origin:		Page 1 of 2					
Company	Accreditations Required (See note):	NE LAP - Louisiana, NE LAP - Texas	New Mexico							
Eurofins Xenco										
Address	Due Date Requested				Job #					
1211 W Florida Ave	12/14/2021				890-1690-1					
City	TAT Requested (days):									
Midland										
State Zip										
TX, 79701										
Phone:	PO #									
432-704-5440(Tel)										
Email	WO #									
Project Name:	Project #									
PALMIO AST	89000025									
Site	SSOW#									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Synthetic, Swill, On-wastewater, B=Residue A-M)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
C-607 (890-1690-1)	12/8/21	14 20	Mountain	Solid		X	X	X		
C-604 (890-1690-2)	12/8/21	09 01	Mountain	Solid		X	X	X		
C-603 (890-1690-3)	12/8/21	09 02	Mountain	Solid		X	X	X		
C-597 (890-1690-4)	12/8/21	09 03	Mountain	Solid		X	X	X		
C-598 (890-1690-5)	12/8/21	09 04	Mountain	Solid		X	X	X		
C-599 (890-1690-6)	12/8/21	09 05	Mountain	Solid		X	X	X		
C-600 (890-1690-7)	12/8/21	09 06	Mountain	Solid		X	X	X		
C-594 (890-1690-8)	12/8/21	09 07	Mountain	Solid		X	X	X		
C-592 (890-1690-9)	12/8/21	09 09	Mountain	Solid		X	X	X		
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I, II, III IV Other (specify)		Primary Deliverable Rank 2		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months				
Empty Kit Relinquished by:		Date		Time		Method of Shipment				
Relinquished by: <i>Joe C. P. 12-9-21</i>		Date/Time:		Company		Received by: <i>Joe C. P.</i>		Date/Time: 12-10-21 11:23		
Relinquished by:		Date/Time		Company		Received by:		Date/Time:		
Relinquished by:		Date/Time		Company		Received by:		Date/Time:		
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 16.0/16.7 10 IR8						

Ver 06/08/2021

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1690-1

SDG Number: 21-0105-02

Login Number: 1690

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1690-1

SDG Number: 21-0105-02

Login Number: 1690**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Xenco, Midland****List Creation: 12/10/21 11:30 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received two days after it was sampled
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-9235-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/20/2021 5:31:56 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-9235-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⌘	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Midland

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Job ID: 880-9235-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-9235-1

Comments

No additional comments.

Receipt

The samples were received on 12/10/2021 1:39 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 9.5° C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-14447/5-B). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-14609 and analytical batch 880-14977 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Client Sample ID: C-364 4.1'

Lab Sample ID: 880-9235-1

Date Collected: 12/09/21 08:30

Matrix: Solid

Date Received: 12/10/21 13:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/13/21 07:30	12/13/21 17:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/13/21 07:30	12/13/21 17:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/13/21 07:30	12/13/21 17:44	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/13/21 07:30	12/13/21 17:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/13/21 07:30	12/13/21 17:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/13/21 07:30	12/13/21 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	12/13/21 07:30	12/13/21 17:44	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/13/21 07:30	12/13/21 17:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/15/21 14:22	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/13/21 08:26	12/13/21 16:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/13/21 08:26	12/13/21 16:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/13/21 08:26	12/13/21 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	12/13/21 08:26	12/13/21 16:40	1
o-Terphenyl (Surr)	100		70 - 130	12/13/21 08:26	12/13/21 16:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	720	F1	4.96	mg/Kg			12/16/21 20:29	1

Client Sample ID: C-583 3.5'

Lab Sample ID: 880-9235-2

Date Collected: 12/09/21 12:50

Matrix: Solid

Date Received: 12/10/21 13:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/13/21 07:30	12/13/21 18:05	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/13/21 07:30	12/13/21 18:05	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/13/21 07:30	12/13/21 18:05	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		12/13/21 07:30	12/13/21 18:05	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/13/21 07:30	12/13/21 18:05	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/13/21 07:30	12/13/21 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/13/21 07:30	12/13/21 18:05	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/13/21 07:30	12/13/21 18:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Client Sample ID: C-583 3.5'

Lab Sample ID: 880-9235-2

Date Collected: 12/09/21 12:50

Matrix: Solid

Date Received: 12/10/21 13:39

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/15/21 14:22	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 18:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 18:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			12/13/21 08:17	12/13/21 18:02	1
o-Terphenyl (Surr)	104		70 - 130			12/13/21 08:17	12/13/21 18:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	243		4.98	mg/Kg			12/16/21 20:54	1

Client Sample ID: C-471 3.5'

Lab Sample ID: 880-9235-3

Date Collected: 12/09/21 13:00

Matrix: Solid

Date Received: 12/10/21 13:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/13/21 07:30	12/13/21 18:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/13/21 07:30	12/13/21 18:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/13/21 07:30	12/13/21 18:25	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/13/21 07:30	12/13/21 18:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/13/21 07:30	12/13/21 18:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/13/21 07:30	12/13/21 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			12/13/21 07:30	12/13/21 18:25	1
1,4-Difluorobenzene (Surr)	73		70 - 130			12/13/21 07:30	12/13/21 18:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/15/21 14:22	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/13/21 08:17	12/13/21 18:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/13/21 08:17	12/13/21 18:23	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Client Sample ID: C-471 3.5'

Lab Sample ID: 880-9235-3

Date Collected: 12/09/21 13:00

Matrix: Solid

Date Received: 12/10/21 13:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/13/21 08:17	12/13/21 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	12/13/21 08:17	12/13/21 18:23	1
o-Terphenyl (Surr)	102		70 - 130	12/13/21 08:17	12/13/21 18:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	407		4.99	mg/Kg			12/16/21 21:02	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9235-1	C-364 4.1'	109	110
880-9235-2	C-583 3.5'	121	97
880-9235-3	C-471 3.5'	116	73
890-1695-A-1-A MS	Matrix Spike	104	96
890-1695-A-1-B MSD	Matrix Spike Duplicate	101	98
LCS 880-14447/1-A	Lab Control Sample	108	100
LCSD 880-14447/2-A	Lab Control Sample Dup	105	101
MB 880-14447/5-B	Method Blank	132 S1+	105
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-9235-1	C-364 4.1'	82	100
880-9235-2	C-583 3.5'	97	104
880-9235-3	C-471 3.5'	93	102
890-1695-A-1-F MS	Matrix Spike	84	83
890-1695-A-1-G MSD	Matrix Spike Duplicate	88	88
890-1696-A-11-E MS	Matrix Spike	85	82
890-1696-A-11-F MSD	Matrix Spike Duplicate	86	85
LCS 880-14598/2-A	Lab Control Sample	110	110
LCS 880-14599/2-A	Lab Control Sample	89	97
LCSD 880-14598/3-A	Lab Control Sample Dup	107	113
LCSD 880-14599/3-A	Lab Control Sample Dup	118	118
MB 880-14598/1-A	Method Blank	104	119
MB 880-14599/1-A	Method Blank	94	119
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14447/5-B

Matrix: Solid

Analysis Batch: 14589

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14447

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/13/21 07:30	12/13/21 10:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/13/21 07:30	12/13/21 10:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/13/21 07:30	12/13/21 10:34	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/13/21 07:30	12/13/21 10:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/13/21 07:30	12/13/21 10:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/13/21 07:30	12/13/21 10:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	12/13/21 07:30	12/13/21 10:34	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/13/21 07:30	12/13/21 10:34	1

Lab Sample ID: LCS 880-14447/1-A

Matrix: Solid

Analysis Batch: 14589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09495		mg/Kg		95	70 - 130
Toluene	0.100	0.08907		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.08816		mg/Kg		88	70 - 130
m,p-Xylenes	0.200	0.1830		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09232		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-14447/2-A

Matrix: Solid

Analysis Batch: 14589

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14447

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08985		mg/Kg		90	70 - 130	6	35
Toluene	0.100	0.08570		mg/Kg		86	70 - 130	4	35
Ethylbenzene	0.100	0.08480		mg/Kg		85	70 - 130	4	35
m,p-Xylenes	0.200	0.1768		mg/Kg		88	70 - 130	3	35
o-Xylene	0.100	0.08732		mg/Kg		87	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-1695-A-1-B MSD

Matrix: Solid

Analysis Batch: 14589

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14447

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.08933		mg/Kg					
Toluene	<0.00200	U	0.0990	0.08357		mg/Kg					

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1695-A-1-B MSD

Matrix: Solid

Analysis Batch: 14589

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14447

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00200	U	0.0990	0.08153		mg/Kg					
m,p-Xylenes	<0.00400	U	0.198	0.1734		mg/Kg					
o-Xylene	<0.00200	U	0.0990	0.08500		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-1695-A-1-A MS

Matrix: Solid

Analysis Batch: 14589

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-14598/1-A

Matrix: Solid

Analysis Batch: 14592

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14598

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 09:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 09:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 09:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	12/13/21 08:17	12/13/21 09:22	1
o-Terphenyl (Surr)	119		70 - 130	12/13/21 08:17	12/13/21 09:22	1

Lab Sample ID: LCS 880-14598/2-A

Matrix: Solid

Analysis Batch: 14592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	925.0		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1066		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	110		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-14598/3-A

Matrix: Solid

Analysis Batch: 14592

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14598

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	857.8		mg/Kg		86	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	995.9		mg/Kg		100	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	107		70 - 130						
o-Terphenyl (Surr)	113		70 - 130						

Lab Sample ID: 890-1696-A-11-E MS

Matrix: Solid

Analysis Batch: 14592

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14598

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1321	F1	mg/Kg		132	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	1310	F1	mg/Kg		131	70 - 130		

Lab Sample ID: 890-1696-A-11-F MSD

Matrix: Solid

Analysis Batch: 14592

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14598

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	1324	F1	mg/Kg		132	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1355	F1	mg/Kg		136	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	86		70 - 130								
o-Terphenyl (Surr)	85		70 - 130								

Lab Sample ID: MB 880-14599/1-A

Matrix: Solid

Analysis Batch: 14594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14599

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/13/21 08:26	12/13/21 09:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/13/21 08:26	12/13/21 09:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/13/21 08:26	12/13/21 09:22	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-14599/1-A

Matrix: Solid

Analysis Batch: 14594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14599

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	12/13/21 08:26	12/13/21 09:22	1
o-Terphenyl (Surr)	119		70 - 130	12/13/21 08:26	12/13/21 09:22	1

Lab Sample ID: LCS 880-14599/2-A

Matrix: Solid

Analysis Batch: 14594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	804.6		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	856.7		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	89		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-14599/3-A

Matrix: Solid

Analysis Batch: 14594

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14599

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	951.7		mg/Kg		95	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	1000		mg/Kg		100	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	118		70 - 130
o-Terphenyl (Surr)	118		70 - 130

Lab Sample ID: 890-1695-A-1-F MS

Matrix: Solid

Analysis Batch: 14594

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14599

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1257		mg/Kg		124	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	1250		mg/Kg		125	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	84		70 - 130
o-Terphenyl (Surr)	83		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1695-A-1-G MSD

Matrix: Solid

Analysis Batch: 14594

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14599

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1307		mg/Kg		128	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1343	F1	mg/Kg		134	70 - 130	7	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	88		70 - 130								
o-Terphenyl (Surr)	88		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14609/1-A

Matrix: Solid

Analysis Batch: 14977

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/16/21 20:03	1

Lab Sample ID: LCS 880-14609/2-A

Matrix: Solid

Analysis Batch: 14977

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	248.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-14609/3-A

Matrix: Solid

Analysis Batch: 14977

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	248.6		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-9235-1 MS

Matrix: Solid

Analysis Batch: 14977

Client Sample ID: C-364 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	720	F1	248	937.0	F1	mg/Kg		87	90 - 110

Lab Sample ID: 880-9235-1 MSD

Matrix: Solid

Analysis Batch: 14977

Client Sample ID: C-364 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	720	F1	248	935.3	F1	mg/Kg		87	90 - 110	0	20

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

GC VOA

Prep Batch: 14447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9235-1	C-364 4.1'	Total/NA	Solid	5035	
880-9235-2	C-583 3.5'	Total/NA	Solid	5035	
880-9235-3	C-471 3.5'	Total/NA	Solid	5035	
MB 880-14447/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-14447/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14447/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1695-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 14589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9235-1	C-364 4.1'	Total/NA	Solid	8021B	14447
880-9235-2	C-583 3.5'	Total/NA	Solid	8021B	14447
880-9235-3	C-471 3.5'	Total/NA	Solid	8021B	14447
MB 880-14447/5-B	Method Blank	Total/NA	Solid	8021B	14447
LCS 880-14447/1-A	Lab Control Sample	Total/NA	Solid	8021B	14447
LCSD 880-14447/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14447
890-1695-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1695-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14447

Analysis Batch: 14874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9235-1	C-364 4.1'	Total/NA	Solid	Total BTEX	
880-9235-2	C-583 3.5'	Total/NA	Solid	Total BTEX	
880-9235-3	C-471 3.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 14592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9235-2	C-583 3.5'	Total/NA	Solid	8015B NM	14598
880-9235-3	C-471 3.5'	Total/NA	Solid	8015B NM	14598
MB 880-14598/1-A	Method Blank	Total/NA	Solid	8015B NM	14598
LCS 880-14598/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14598
LCSD 880-14598/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14598
890-1696-A-11-E MS	Matrix Spike	Total/NA	Solid	8015B NM	14598
890-1696-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14598

Analysis Batch: 14594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9235-1	C-364 4.1'	Total/NA	Solid	8015B NM	14599
MB 880-14599/1-A	Method Blank	Total/NA	Solid	8015B NM	14599
LCS 880-14599/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14599
LCSD 880-14599/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14599
890-1695-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	14599
890-1695-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14599

Prep Batch: 14598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9235-2	C-583 3.5'	Total/NA	Solid	8015NM Prep	
880-9235-3	C-471 3.5'	Total/NA	Solid	8015NM Prep	
MB 880-14598/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 14598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-14598/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14598/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1696-A-11-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1696-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 14599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9235-1	C-364 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-14599/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14599/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14599/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1695-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1695-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 14652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9235-1	C-364 4.1'	Total/NA	Solid	8015 NM	
880-9235-2	C-583 3.5'	Total/NA	Solid	8015 NM	
880-9235-3	C-471 3.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 14609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9235-1	C-364 4.1'	Soluble	Solid	DI Leach	
880-9235-2	C-583 3.5'	Soluble	Solid	DI Leach	
880-9235-3	C-471 3.5'	Soluble	Solid	DI Leach	
MB 880-14609/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14609/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14609/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9235-1 MS	C-364 4.1'	Soluble	Solid	DI Leach	
880-9235-1 MSD	C-364 4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 14977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9235-1	C-364 4.1'	Soluble	Solid	300.0	14609
880-9235-2	C-583 3.5'	Soluble	Solid	300.0	14609
880-9235-3	C-471 3.5'	Soluble	Solid	300.0	14609
MB 880-14609/1-A	Method Blank	Soluble	Solid	300.0	14609
LCS 880-14609/2-A	Lab Control Sample	Soluble	Solid	300.0	14609
LCSD 880-14609/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14609
880-9235-1 MS	C-364 4.1'	Soluble	Solid	300.0	14609
880-9235-1 MSD	C-364 4.1'	Soluble	Solid	300.0	14609

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Client Sample ID: C-364 4.1'

Lab Sample ID: 880-9235-1

Date Collected: 12/09/21 08:30

Matrix: Solid

Date Received: 12/10/21 13:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	14447	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14589	12/13/21 17:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14599	12/13/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14594	12/13/21 16:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	14609	12/13/21 09:17	CH	XEN MID
Soluble	Analysis	300.0		1			14977	12/16/21 20:29	CH	XEN MID

Client Sample ID: C-583 3.5'

Lab Sample ID: 880-9235-2

Date Collected: 12/09/21 12:50

Matrix: Solid

Date Received: 12/10/21 13:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	14447	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14589	12/13/21 18:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14592	12/13/21 18:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	14609	12/13/21 09:17	CH	XEN MID
Soluble	Analysis	300.0		1			14977	12/16/21 20:54	CH	XEN MID

Client Sample ID: C-471 3.5'

Lab Sample ID: 880-9235-3

Date Collected: 12/09/21 13:00

Matrix: Solid

Date Received: 12/10/21 13:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	14447	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14589	12/13/21 18:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14592	12/13/21 18:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	14609	12/13/21 09:17	CH	XEN MID
Soluble	Analysis	300.0		1			14977	12/16/21 21:02	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9235-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-9235-1	C-364 4.1'	Solid	12/09/21 08:30	12/10/21 13:39
880-9235-2	C-583 3.5'	Solid	12/09/21 12:50	12/10/21 13:39
880-9235-3	C-471 3.5'	Solid	12/09/21 13:00	12/10/21 13:39

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Arson & Associates, Inc.
Environmental Consultants

507 N Warrenfield Ste 202
Midland TX 79701
432-687-0901

Date Reported to

DATE: 12-10-21 PAGE 1 OF 1
PO#: _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME: Palmiro Ast
LAI PROJECT # 21-0105-02 COLLECTOR TP

TRRP report?
☐ Yes ☒ No

TIME ZONE
Time zone/State
MST/NM

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

Field
Sample I D

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTX/PAH/MTBE ☐
TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐
GASOLINE MOD 8015 ☐
DIESEL MOD 8015 ☐
OIL MOD 8015 ☐
VOC 8260 ☐
SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐
8081 PESTICIDES ☐ 8151 HERBICIDES ☐
8082 PCBs ☐
TCPP - METALS (RCRA) ☐ TCPP VOC ☐
TCPP - PEST ☐ HERB ☐ SEMI-VOC ☐
TOTAL METALS (RCRA) ☐ DW 200 B ☐ TCPP ☐
LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐
RCL ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐
TDS ☐ pH ☐ HEXAVALENT CHROMIUM ☐
EXPLOSIVES ☐ PEROXIDE ☐ ALKALINITY ☐
CHLORIDE ☐ ANIONS ☐

FIELD NOTES

C-364 4.1
C-583 3.5
C-471 3.5

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LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

LABORATORY

RECEIVING TEMP

TERMIN#

NOT USED

880-9235 Chain of Custody

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-9235-1

SDG Number: 21-0105-02

Login Number: 9235

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1706-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio Ast
Revision: 1

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
2/2/2022 10:09:40 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Laboratory Job ID: 890-1706-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Job ID: 890-1706-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1706-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 12/21/2021. The report (revision 1) is being revised to change sample ID C-665 3.5' to C-663 3.5' per Daniel St. Germain (email).

Receipt

The samples were received on 12/13/2021 4:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 20.4° C.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-14794 and analytical batch 880-14897 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-14835 and analytical batch 880-14984 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-649 3.5'

Lab Sample ID: 890-1706-1

Date Collected: 12/13/21 13:51

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 01:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 01:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 01:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 10:12	12/15/21 01:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 01:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 10:12	12/15/21 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/14/21 10:12	12/15/21 01:48	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/14/21 10:12	12/15/21 01:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/20/21 15:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/17/21 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 13:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 13:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130	12/14/21 15:08	12/15/21 13:59	1
o-Terphenyl (Surr)	115		70 - 130	12/14/21 15:08	12/15/21 13:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.4		4.95	mg/Kg			12/20/21 03:36	1

Client Sample ID: C-647 3.5'

Lab Sample ID: 890-1706-2

Date Collected: 12/13/21 13:52

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 02:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 02:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 02:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 10:12	12/15/21 02:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 02:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 10:12	12/15/21 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	12/14/21 10:12	12/15/21 02:09	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-647 3.5'

Lab Sample ID: 890-1706-2

Date Collected: 12/13/21 13:52

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	12/14/21 10:12	12/15/21 02:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/20/21 15:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/17/21 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 14:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 14:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 14:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			12/14/21 15:08	12/15/21 14:20	1
o-Terphenyl (Surr)	114		70 - 130			12/14/21 15:08	12/15/21 14:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.8		5.00	mg/Kg			12/20/21 03:56	1

Client Sample ID: C-765 2.5'

Lab Sample ID: 890-1706-3

Date Collected: 12/13/21 13:54

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 02:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 02:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 02:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 10:12	12/15/21 02:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 02:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 10:12	12/15/21 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/14/21 10:12	12/15/21 02:29	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/14/21 10:12	12/15/21 02:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/20/21 15:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/17/21 09:16	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-765 2.5'

Lab Sample ID: 890-1706-3

Date Collected: 12/13/21 13:54

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 2.5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 14:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 14:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 14:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			12/14/21 15:08	12/15/21 14:41	1
o-Terphenyl (Surr)	116		70 - 130			12/14/21 15:08	12/15/21 14:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.8		5.04	mg/Kg			12/20/21 03:43	1

Client Sample ID: C-664 3.5'

Lab Sample ID: 890-1706-4

Date Collected: 12/13/21 14:10

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 02:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 02:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 02:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/14/21 10:12	12/15/21 02:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 02:50	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/14/21 10:12	12/15/21 02:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			12/14/21 10:12	12/15/21 02:50	1
1,4-Difluorobenzene (Surr)	108		70 - 130			12/14/21 10:12	12/15/21 02:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/20/21 15:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/17/21 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 15:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 15:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 15:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			12/14/21 15:08	12/15/21 15:24	1
o-Terphenyl (Surr)	103		70 - 130			12/14/21 15:08	12/15/21 15:24	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-664 3.5'

Lab Sample ID: 890-1706-4

Date Collected: 12/13/21 14:10

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 3.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.1		4.98	mg/Kg			12/20/21 03:50	1

Client Sample ID: C-663 3.5'

Lab Sample ID: 890-1706-5

Date Collected: 12/13/21 14:11

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 03:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 03:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 03:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 10:12	12/15/21 03:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 03:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 10:12	12/15/21 03:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			12/14/21 10:12	12/15/21 03:10	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/14/21 10:12	12/15/21 03:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/20/21 15:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/17/21 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 15:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 15:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 15:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			12/14/21 15:08	12/15/21 15:45	1
o-Terphenyl (Surr)	100		70 - 130			12/14/21 15:08	12/15/21 15:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		4.98	mg/Kg			12/20/21 04:03	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-659 4.1'

Lab Sample ID: 890-1706-6

Date Collected: 12/13/21 14:12

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/14/21 10:12	12/15/21 04:32	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/14/21 10:12	12/15/21 04:32	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/14/21 10:12	12/15/21 04:32	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/14/21 10:12	12/15/21 04:32	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/14/21 10:12	12/15/21 04:32	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/14/21 10:12	12/15/21 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	12/14/21 10:12	12/15/21 04:32	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/14/21 10:12	12/15/21 04:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/20/21 15:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/17/21 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 16:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 16:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	12/14/21 15:08	12/15/21 16:07	1
o-Terphenyl (Surr)	114		70 - 130	12/14/21 15:08	12/15/21 16:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235	F1	4.95	mg/Kg			12/20/21 04:10	1

Client Sample ID: C-668 4.1'

Lab Sample ID: 890-1706-7

Date Collected: 12/13/21 14:13

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:12	12/15/21 04:53	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:12	12/15/21 04:53	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:12	12/15/21 04:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/14/21 10:12	12/15/21 04:53	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:12	12/15/21 04:53	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/14/21 10:12	12/15/21 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	12/14/21 10:12	12/15/21 04:53	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-668 4.1'

Lab Sample ID: 890-1706-7

Date Collected: 12/13/21 14:13

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	12/14/21 10:12	12/15/21 04:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/20/21 15:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/17/21 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 16:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 16:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 16:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			12/14/21 15:08	12/15/21 16:28	1
o-Terphenyl (Surr)	116		70 - 130			12/14/21 15:08	12/15/21 16:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	584		5.01	mg/Kg			12/20/21 04:30	1

Client Sample ID: C-622 4.1'

Lab Sample ID: 890-1706-8

Date Collected: 12/13/21 15:00

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 05:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 05:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 05:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/14/21 10:12	12/15/21 05:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 05:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/14/21 10:12	12/15/21 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/14/21 10:12	12/15/21 05:13	1
1,4-Difluorobenzene (Surr)	109		70 - 130	12/14/21 10:12	12/15/21 05:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/20/21 15:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/17/21 09:16	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-622 4.1'

Lab Sample ID: 890-1706-8

Date Collected: 12/13/21 15:00

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 16:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 16:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 16:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			12/14/21 15:08	12/15/21 16:49	1
o-Terphenyl (Surr)	116		70 - 130			12/14/21 15:08	12/15/21 16:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		4.97	mg/Kg			12/20/21 04:36	1

Client Sample ID: C-605 4.1'

Lab Sample ID: 890-1706-9

Date Collected: 12/13/21 15:01

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:12	12/15/21 05:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:12	12/15/21 05:33	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:12	12/15/21 05:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/14/21 10:12	12/15/21 05:33	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:12	12/15/21 05:33	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/14/21 10:12	12/15/21 05:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			12/14/21 10:12	12/15/21 05:33	1
1,4-Difluorobenzene (Surr)	108		70 - 130			12/14/21 10:12	12/15/21 05:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/20/21 15:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/17/21 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 17:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 17:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 17:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			12/14/21 15:08	12/15/21 17:11	1
o-Terphenyl (Surr)	101		70 - 130			12/14/21 15:08	12/15/21 17:11	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-605 4.1'

Lab Sample ID: 890-1706-9

Date Collected: 12/13/21 15:01

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		4.98	mg/Kg			12/20/21 04:56	1

Client Sample ID: C-593 4.1'

Lab Sample ID: 890-1706-10

Date Collected: 12/13/21 15:02

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 05:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 05:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 05:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 10:12	12/15/21 05:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:12	12/15/21 05:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 10:12	12/15/21 05:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			12/14/21 10:12	12/15/21 05:54	1
1,4-Difluorobenzene (Surr)	105		70 - 130			12/14/21 10:12	12/15/21 05:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/20/21 15:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/17/21 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/14/21 15:08	12/15/21 17:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/14/21 15:08	12/15/21 17:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/14/21 15:08	12/15/21 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			12/14/21 15:08	12/15/21 17:32	1
o-Terphenyl (Surr)	95		70 - 130			12/14/21 15:08	12/15/21 17:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2290		24.8	mg/Kg			12/20/21 05:03	5

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-584 4.1'

Lab Sample ID: 890-1706-11

Date Collected: 12/13/21 15:03

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 06:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 06:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 06:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/14/21 10:12	12/15/21 06:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 06:14	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/14/21 10:12	12/15/21 06:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	12/14/21 10:12	12/15/21 06:14	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/14/21 10:12	12/15/21 06:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/20/21 15:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/17/21 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 17:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 17:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	12/14/21 15:08	12/15/21 17:53	1
o-Terphenyl (Surr)	98		70 - 130	12/14/21 15:08	12/15/21 17:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		5.00	mg/Kg			12/20/21 05:09	1

Client Sample ID: C-590 4.1'

Lab Sample ID: 890-1706-12

Date Collected: 12/13/21 15:04

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:12	12/15/21 06:35	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:12	12/15/21 06:35	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:12	12/15/21 06:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/14/21 10:12	12/15/21 06:35	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:12	12/15/21 06:35	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/14/21 10:12	12/15/21 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/14/21 10:12	12/15/21 06:35	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-590 4.1'

Lab Sample ID: 890-1706-12

Date Collected: 12/13/21 15:04

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	12/14/21 10:12	12/15/21 06:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/20/21 15:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/17/21 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 18:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 18:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			12/14/21 15:08	12/15/21 18:14	1
o-Terphenyl (Surr)	103		70 - 130			12/14/21 15:08	12/15/21 18:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	364		5.01	mg/Kg			12/20/21 05:16	1

Client Sample ID: C-589 4.1'

Lab Sample ID: 890-1706-13

Date Collected: 12/13/21 15:05

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 06:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 06:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 06:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/14/21 10:12	12/15/21 06:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/15/21 06:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/14/21 10:12	12/15/21 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	12/14/21 10:12	12/15/21 06:55	1
1,4-Difluorobenzene (Surr)	123		70 - 130	12/14/21 10:12	12/15/21 06:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/20/21 15:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/17/21 09:16	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-589 4.1'

Lab Sample ID: 890-1706-13

Date Collected: 12/13/21 15:05

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 18:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 18:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			12/14/21 15:08	12/15/21 18:35	1
o-Terphenyl (Surr)	97		70 - 130			12/14/21 15:08	12/15/21 18:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	660		4.95	mg/Kg			12/20/21 05:23	1

Client Sample ID: C-588 4.1'

Lab Sample ID: 890-1706-14

Date Collected: 12/13/21 15:06

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:12	12/15/21 07:16	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:12	12/15/21 07:16	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:12	12/15/21 07:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/14/21 10:12	12/15/21 07:16	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:12	12/15/21 07:16	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/14/21 10:12	12/15/21 07:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			12/14/21 10:12	12/15/21 07:16	1
1,4-Difluorobenzene (Surr)	108		70 - 130			12/14/21 10:12	12/15/21 07:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/20/21 15:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/17/21 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 14:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 14:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 14:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			12/14/21 16:40	12/16/21 14:49	1
o-Terphenyl (Surr)	116		70 - 130			12/14/21 16:40	12/16/21 14:49	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-588 4.1'

Lab Sample ID: 890-1706-14

Date Collected: 12/13/21 15:06

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	507		5.04	mg/Kg			12/20/21 05:29	1

Client Sample ID: C-587 4.1'

Lab Sample ID: 890-1706-15

Date Collected: 12/13/21 15:07

Matrix: Solid

Date Received: 12/13/21 16:25

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:12	12/15/21 07:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:12	12/15/21 07:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:12	12/15/21 07:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/14/21 10:12	12/15/21 07:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:12	12/15/21 07:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/14/21 10:12	12/15/21 07:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			12/14/21 10:12	12/15/21 07:36	1
1,4-Difluorobenzene (Surr)	82		70 - 130			12/14/21 10:12	12/15/21 07:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/20/21 15:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/17/21 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 15:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 15:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			12/14/21 16:40	12/16/21 15:10	1
o-Terphenyl (Surr)	95		70 - 130			12/14/21 16:40	12/16/21 15:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	672		5.00	mg/Kg			12/20/21 05:36	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-9308-A-1-A MS	Matrix Spike	115	104
880-9308-A-1-B MSD	Matrix Spike Duplicate	115	99
890-1706-1	C-649 3.5'	119	84
890-1706-2	C-647 3.5'	128	111
890-1706-3	C-765 2.5'	123	100
890-1706-4	C-664 3.5'	134 S1+	108
890-1706-5	C-663 3.5'	132 S1+	100
890-1706-6	C-659 4.1'	125	105
890-1706-7	C-668 4.1'	133 S1+	106
890-1706-8	C-622 4.1'	127	109
890-1706-9	C-605 4.1'	128	108
890-1706-10	C-593 4.1'	133 S1+	105
890-1706-11	C-584 4.1'	131 S1+	96
890-1706-12	C-590 4.1'	119	106
890-1706-13	C-589 4.1'	144 S1+	123
890-1706-14	C-588 4.1'	121	108
890-1706-15	C-587 4.1'	111	82
LCS 880-14760/1-A	Lab Control Sample	102	103
LCSD 880-14760/2-A	Lab Control Sample Dup	103	104
MB 880-14660/5-A	Method Blank	117	102
MB 880-14760/5-A	Method Blank	105	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-1706-1	C-649 3.5'	114	115
890-1706-2	C-647 3.5'	114	114
890-1706-3	C-765 2.5'	116	116
890-1706-4	C-664 3.5'	103	103
890-1706-5	C-663 3.5'	98	100
890-1706-6	C-659 4.1'	111	114
890-1706-7	C-668 4.1'	115	116
890-1706-8	C-622 4.1'	113	116
890-1706-9	C-605 4.1'	101	101
890-1706-10	C-593 4.1'	94	95
890-1706-11	C-584 4.1'	95	98
890-1706-12	C-590 4.1'	101	103
890-1706-13	C-589 4.1'	94	97
890-1706-14	C-588 4.1'	117	116
890-1706-15	C-587 4.1'	96	95
890-1707-A-6-C MS	Matrix Spike	90	97
890-1707-A-6-D MSD	Matrix Spike Duplicate	89	97
890-1709-A-1-E MS	Matrix Spike	84	86

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1706-1

Project/Site: Palmio Ast

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1709-A-1-F MSD	Matrix Spike Duplicate	105	106
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-14783/2-A	Lab Control Sample	111	112
LCS 880-14794/2-A	Lab Control Sample	115	119
LCSD 880-14783/3-A	Lab Control Sample Dup	108	119
LCSD 880-14794/3-A	Lab Control Sample Dup	102	109
MB 880-14783/1-A	Method Blank	93	100
MB 880-14794/1-A	Method Blank	102	104
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14660/5-A

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14660

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/14/21 07:30	12/14/21 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/14/21 07:30	12/14/21 10:41	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/14/21 07:30	12/14/21 10:41	1

Lab Sample ID: MB 880-14760/5-A

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14760

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/14/21 23:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/14/21 23:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/14/21 23:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/14/21 10:12	12/14/21 23:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:12	12/14/21 23:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/14/21 10:12	12/14/21 23:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	12/14/21 10:12	12/14/21 23:45	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/14/21 10:12	12/14/21 23:45	1

Lab Sample ID: LCS 880-14760/1-A

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08270		mg/Kg		83	70 - 130
Toluene	0.100	0.07391		mg/Kg		74	70 - 130
Ethylbenzene	0.100	0.07840		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1561		mg/Kg		78	70 - 130
o-Xylene	0.100	0.08243		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-14760/2-A

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14760

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09010		mg/Kg		90	70 - 130	9	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-14760/2-A

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14760

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08629		mg/Kg		86	70 - 130	15	35
Ethylbenzene	0.100	0.08473		mg/Kg		85	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1731		mg/Kg		87	70 - 130	10	35
o-Xylene	0.100	0.08563		mg/Kg		86	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-9308-A-1-A MS

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14760

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U F1	0.100	0.06652	F1	mg/Kg		67	70 - 130
Toluene	<0.00201	U F1	0.100	0.05933	F1	mg/Kg		59	70 - 130
Ethylbenzene	<0.00201	U F1	0.100	0.05821	F1	mg/Kg		58	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1219	F1	mg/Kg		61	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.06262	F1	mg/Kg		62	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-9308-A-1-B MSD

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14760

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0998	0.05111	F1	mg/Kg		51	70 - 130	26	35
Toluene	<0.00201	U F1	0.0998	0.04411	F1	mg/Kg		44	70 - 130	29	35
Ethylbenzene	<0.00201	U F1	0.0998	0.04926	F1	mg/Kg		49	70 - 130	17	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.09729	F1	mg/Kg		49	70 - 130	22	35
o-Xylene	<0.00201	U F1	0.0998	0.05209	F1	mg/Kg		52	70 - 130	18	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-14783/1-A

Matrix: Solid

Analysis Batch: 14803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14783

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 09:45	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-14783/1-A

Matrix: Solid

Analysis Batch: 14803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14783

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 09:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 09:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			12/14/21 15:08	12/15/21 09:45	1
o-Terphenyl (Surr)	100		70 - 130			12/14/21 15:08	12/15/21 09:45	1

Lab Sample ID: LCS 880-14783/2-A

Matrix: Solid

Analysis Batch: 14803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	957.4		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	967.4		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	111		70 - 130				
o-Terphenyl (Surr)	112		70 - 130				

Lab Sample ID: LCSD 880-14783/3-A

Matrix: Solid

Analysis Batch: 14803

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14783

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	908.5		mg/Kg		91	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	924.4		mg/Kg		92	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	108		70 - 130						
o-Terphenyl (Surr)	119		70 - 130						

Lab Sample ID: 890-1707-A-6-C MS

Matrix: Solid

Analysis Batch: 14803

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14783

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	905.8		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1006		mg/Kg		98	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	90		70 - 130						
o-Terphenyl (Surr)	97		70 - 130						

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1707-A-6-D MSD

Matrix: Solid

Analysis Batch: 14803

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14783

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	890.1		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	995	1011		mg/Kg		99	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	89		70 - 130								
o-Terphenyl (Surr)	97		70 - 130								

Lab Sample ID: MB 880-14794/1-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14794

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 10:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 10:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 10:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			12/14/21 16:40	12/16/21 10:15	1
o-Terphenyl (Surr)	104		70 - 130			12/14/21 16:40	12/16/21 10:15	1

Lab Sample ID: LCS 880-14794/2-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1027		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1062		mg/Kg		106	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	115		70 - 130						
o-Terphenyl (Surr)	119		70 - 130						

Lab Sample ID: LCSD 880-14794/3-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	898.3		mg/Kg		90	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	880.0		mg/Kg		88	70 - 130	19	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-14794/3-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14794

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: 890-1709-A-1-E MS

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14794

Top Data: 100%									
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	996	916.1		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F2	996	978.6		mg/Kg		97	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	84		70 - 130						
o-Terphenyl (Surr)	86		70 - 130						

Lab Sample ID: 890-1709-A-1-F MSD

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14794

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	995	1433	F1 F2	mg/Kg		142	70 - 130	44	20
Diesel Range Organics (Over C10-C28)	<50.0	U F2	995	1226	F2	mg/Kg		122	70 - 130	22	20
										</	

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14835/1-A

Matrix: Solid

Analysis Batch: 14984

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/20/21 02:17	1

Lab Sample ID: LCS 880-14835/2-A

Matrix: Solid

Analysis Batch: 14984

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	268.8		mg/Kg		108	90 - 110

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-14835/3-A

Matrix: Solid

Analysis Batch: 14984

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	271.0		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 890-1706-6 MS

Matrix: Solid

Analysis Batch: 14984

Client Sample ID: C-659 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	235	F1	248	521.1	F1	mg/Kg		116	90 - 110		

Lab Sample ID: 890-1706-6 MSD

Matrix: Solid

Analysis Batch: 14984

Client Sample ID: C-659 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	235	F1	248	524.5	F1	mg/Kg		117	90 - 110	1	20

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

GC VOA

Prep Batch: 14660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-14660/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 14700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1706-1	C-649 3.5'	Total/NA	Solid	8021B	14760
890-1706-2	C-647 3.5'	Total/NA	Solid	8021B	14760
890-1706-3	C-765 2.5'	Total/NA	Solid	8021B	14760
890-1706-4	C-664 3.5'	Total/NA	Solid	8021B	14760
890-1706-5	C-663 3.5'	Total/NA	Solid	8021B	14760
890-1706-6	C-659 4.1'	Total/NA	Solid	8021B	14760
890-1706-7	C-668 4.1'	Total/NA	Solid	8021B	14760
890-1706-8	C-622 4.1'	Total/NA	Solid	8021B	14760
890-1706-9	C-605 4.1'	Total/NA	Solid	8021B	14760
890-1706-10	C-593 4.1'	Total/NA	Solid	8021B	14760
890-1706-11	C-584 4.1'	Total/NA	Solid	8021B	14760
890-1706-12	C-590 4.1'	Total/NA	Solid	8021B	14760
890-1706-13	C-589 4.1'	Total/NA	Solid	8021B	14760
890-1706-14	C-588 4.1'	Total/NA	Solid	8021B	14760
890-1706-15	C-587 4.1'	Total/NA	Solid	8021B	14760
MB 880-14660/5-A	Method Blank	Total/NA	Solid	8021B	14660
MB 880-14760/5-A	Method Blank	Total/NA	Solid	8021B	14760
LCS 880-14760/1-A	Lab Control Sample	Total/NA	Solid	8021B	14760
LCSD 880-14760/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14760
880-9308-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	14760
880-9308-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14760

Prep Batch: 14760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1706-1	C-649 3.5'	Total/NA	Solid	5035	
890-1706-2	C-647 3.5'	Total/NA	Solid	5035	
890-1706-3	C-765 2.5'	Total/NA	Solid	5035	
890-1706-4	C-664 3.5'	Total/NA	Solid	5035	
890-1706-5	C-663 3.5'	Total/NA	Solid	5035	
890-1706-6	C-659 4.1'	Total/NA	Solid	5035	
890-1706-7	C-668 4.1'	Total/NA	Solid	5035	
890-1706-8	C-622 4.1'	Total/NA	Solid	5035	
890-1706-9	C-605 4.1'	Total/NA	Solid	5035	
890-1706-10	C-593 4.1'	Total/NA	Solid	5035	
890-1706-11	C-584 4.1'	Total/NA	Solid	5035	
890-1706-12	C-590 4.1'	Total/NA	Solid	5035	
890-1706-13	C-589 4.1'	Total/NA	Solid	5035	
890-1706-14	C-588 4.1'	Total/NA	Solid	5035	
890-1706-15	C-587 4.1'	Total/NA	Solid	5035	
MB 880-14760/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14760/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14760/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9308-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-9308-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

GC VOA

Analysis Batch: 15211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1706-1	C-649 3.5'	Total/NA	Solid	Total BTEX	
890-1706-2	C-647 3.5'	Total/NA	Solid	Total BTEX	
890-1706-3	C-765 2.5'	Total/NA	Solid	Total BTEX	
890-1706-4	C-664 3.5'	Total/NA	Solid	Total BTEX	
890-1706-5	C-663 3.5'	Total/NA	Solid	Total BTEX	
890-1706-6	C-659 4.1'	Total/NA	Solid	Total BTEX	
890-1706-7	C-668 4.1'	Total/NA	Solid	Total BTEX	
890-1706-8	C-622 4.1'	Total/NA	Solid	Total BTEX	
890-1706-9	C-605 4.1'	Total/NA	Solid	Total BTEX	
890-1706-10	C-593 4.1'	Total/NA	Solid	Total BTEX	
890-1706-11	C-584 4.1'	Total/NA	Solid	Total BTEX	
890-1706-12	C-590 4.1'	Total/NA	Solid	Total BTEX	
890-1706-13	C-589 4.1'	Total/NA	Solid	Total BTEX	
890-1706-14	C-588 4.1'	Total/NA	Solid	Total BTEX	
890-1706-15	C-587 4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 14783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1706-1	C-649 3.5'	Total/NA	Solid	8015NM Prep	
890-1706-2	C-647 3.5'	Total/NA	Solid	8015NM Prep	
890-1706-3	C-765 2.5'	Total/NA	Solid	8015NM Prep	
890-1706-4	C-664 3.5'	Total/NA	Solid	8015NM Prep	
890-1706-5	C-663 3.5'	Total/NA	Solid	8015NM Prep	
890-1706-6	C-659 4.1'	Total/NA	Solid	8015NM Prep	
890-1706-7	C-668 4.1'	Total/NA	Solid	8015NM Prep	
890-1706-8	C-622 4.1'	Total/NA	Solid	8015NM Prep	
890-1706-9	C-605 4.1'	Total/NA	Solid	8015NM Prep	
890-1706-10	C-593 4.1'	Total/NA	Solid	8015NM Prep	
890-1706-11	C-584 4.1'	Total/NA	Solid	8015NM Prep	
890-1706-12	C-590 4.1'	Total/NA	Solid	8015NM Prep	
890-1706-13	C-589 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-14783/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14783/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14783/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1707-A-6-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1707-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 14794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1706-14	C-588 4.1'	Total/NA	Solid	8015NM Prep	
890-1706-15	C-587 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-14794/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14794/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1709-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1709-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 14803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1706-1	C-649 3.5'	Total/NA	Solid	8015B NM	14783
890-1706-2	C-647 3.5'	Total/NA	Solid	8015B NM	14783
890-1706-3	C-765 2.5'	Total/NA	Solid	8015B NM	14783
890-1706-4	C-664 3.5'	Total/NA	Solid	8015B NM	14783
890-1706-5	C-663 3.5'	Total/NA	Solid	8015B NM	14783
890-1706-6	C-659 4.1'	Total/NA	Solid	8015B NM	14783
890-1706-7	C-668 4.1'	Total/NA	Solid	8015B NM	14783
890-1706-8	C-622 4.1'	Total/NA	Solid	8015B NM	14783
890-1706-9	C-605 4.1'	Total/NA	Solid	8015B NM	14783
890-1706-10	C-593 4.1'	Total/NA	Solid	8015B NM	14783
890-1706-11	C-584 4.1'	Total/NA	Solid	8015B NM	14783
890-1706-12	C-590 4.1'	Total/NA	Solid	8015B NM	14783
890-1706-13	C-589 4.1'	Total/NA	Solid	8015B NM	14783
MB 880-14783/1-A	Method Blank	Total/NA	Solid	8015B NM	14783
LCS 880-14783/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14783
LCSD 880-14783/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14783
890-1707-A-6-C MS	Matrix Spike	Total/NA	Solid	8015B NM	14783
890-1707-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14783

Analysis Batch: 14897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1706-14	C-588 4.1'	Total/NA	Solid	8015B NM	14794
890-1706-15	C-587 4.1'	Total/NA	Solid	8015B NM	14794
MB 880-14794/1-A	Method Blank	Total/NA	Solid	8015B NM	14794
LCS 880-14794/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14794
LCSD 880-14794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14794
890-1709-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	14794
890-1709-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14794

Analysis Batch: 15045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1706-1	C-649 3.5'	Total/NA	Solid	8015 NM	
890-1706-2	C-647 3.5'	Total/NA	Solid	8015 NM	
890-1706-3	C-765 2.5'	Total/NA	Solid	8015 NM	
890-1706-4	C-664 3.5'	Total/NA	Solid	8015 NM	
890-1706-5	C-663 3.5'	Total/NA	Solid	8015 NM	
890-1706-6	C-659 4.1'	Total/NA	Solid	8015 NM	
890-1706-7	C-668 4.1'	Total/NA	Solid	8015 NM	
890-1706-8	C-622 4.1'	Total/NA	Solid	8015 NM	
890-1706-9	C-605 4.1'	Total/NA	Solid	8015 NM	
890-1706-10	C-593 4.1'	Total/NA	Solid	8015 NM	
890-1706-11	C-584 4.1'	Total/NA	Solid	8015 NM	
890-1706-12	C-590 4.1'	Total/NA	Solid	8015 NM	
890-1706-13	C-589 4.1'	Total/NA	Solid	8015 NM	
890-1706-14	C-588 4.1'	Total/NA	Solid	8015 NM	
890-1706-15	C-587 4.1'	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 14835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1706-1	C-649 3.5'	Soluble	Solid	DI Leach	
890-1706-2	C-647 3.5'	Soluble	Solid	DI Leach	
890-1706-3	C-765 2.5'	Soluble	Solid	DI Leach	
890-1706-4	C-664 3.5'	Soluble	Solid	DI Leach	
890-1706-5	C-663 3.5'	Soluble	Solid	DI Leach	
890-1706-6	C-659 4.1'	Soluble	Solid	DI Leach	
890-1706-7	C-668 4.1'	Soluble	Solid	DI Leach	
890-1706-8	C-622 4.1'	Soluble	Solid	DI Leach	
890-1706-9	C-605 4.1'	Soluble	Solid	DI Leach	
890-1706-10	C-593 4.1'	Soluble	Solid	DI Leach	
890-1706-11	C-584 4.1'	Soluble	Solid	DI Leach	
890-1706-12	C-590 4.1'	Soluble	Solid	DI Leach	
890-1706-13	C-589 4.1'	Soluble	Solid	DI Leach	
890-1706-14	C-588 4.1'	Soluble	Solid	DI Leach	
890-1706-15	C-587 4.1'	Soluble	Solid	DI Leach	
MB 880-14835/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14835/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14835/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1706-6 MS	C-659 4.1'	Soluble	Solid	DI Leach	
890-1706-6 MSD	C-659 4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 14984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1706-1	C-649 3.5'	Soluble	Solid	300.0	14835
890-1706-2	C-647 3.5'	Soluble	Solid	300.0	14835
890-1706-3	C-765 2.5'	Soluble	Solid	300.0	14835
890-1706-4	C-664 3.5'	Soluble	Solid	300.0	14835
890-1706-5	C-663 3.5'	Soluble	Solid	300.0	14835
890-1706-6	C-659 4.1'	Soluble	Solid	300.0	14835
890-1706-7	C-668 4.1'	Soluble	Solid	300.0	14835
890-1706-8	C-622 4.1'	Soluble	Solid	300.0	14835
890-1706-9	C-605 4.1'	Soluble	Solid	300.0	14835
890-1706-10	C-593 4.1'	Soluble	Solid	300.0	14835
890-1706-11	C-584 4.1'	Soluble	Solid	300.0	14835
890-1706-12	C-590 4.1'	Soluble	Solid	300.0	14835
890-1706-13	C-589 4.1'	Soluble	Solid	300.0	14835
890-1706-14	C-588 4.1'	Soluble	Solid	300.0	14835
890-1706-15	C-587 4.1'	Soluble	Solid	300.0	14835
MB 880-14835/1-A	Method Blank	Soluble	Solid	300.0	14835
LCS 880-14835/2-A	Lab Control Sample	Soluble	Solid	300.0	14835
LCSD 880-14835/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14835
890-1706-6 MS	C-659 4.1'	Soluble	Solid	300.0	14835
890-1706-6 MSD	C-659 4.1'	Soluble	Solid	300.0	14835

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-649 3.5'

Lab Sample ID: 890-1706-1

Date Collected: 12/13/21 13:51

Matrix: Solid

Date Received: 12/13/21 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 01:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 13:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 03:36	CH	XEN MID

Client Sample ID: C-647 3.5'

Lab Sample ID: 890-1706-2

Date Collected: 12/13/21 13:52

Matrix: Solid

Date Received: 12/13/21 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 02:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 14:20	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 03:56	CH	XEN MID

Client Sample ID: C-765 2.5'

Lab Sample ID: 890-1706-3

Date Collected: 12/13/21 13:54

Matrix: Solid

Date Received: 12/13/21 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 02:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 14:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 03:43	CH	XEN MID

Client Sample ID: C-664 3.5'

Lab Sample ID: 890-1706-4

Date Collected: 12/13/21 14:10

Matrix: Solid

Date Received: 12/13/21 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 02:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:38	AJ	XEN MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-664 3.5'

Date Collected: 12/13/21 14:10

Date Received: 12/13/21 16:25

Lab Sample ID: 890-1706-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 15:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 03:50	CH	XEN MID

Client Sample ID: C-663 3.5'

Date Collected: 12/13/21 14:11

Date Received: 12/13/21 16:25

Lab Sample ID: 890-1706-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 03:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 15:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 04:03	CH	XEN MID

Client Sample ID: C-659 4.1'

Date Collected: 12/13/21 14:12

Date Received: 12/13/21 16:25

Lab Sample ID: 890-1706-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 04:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 16:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 04:10	CH	XEN MID

Client Sample ID: C-668 4.1'

Date Collected: 12/13/21 14:13

Date Received: 12/13/21 16:25

Lab Sample ID: 890-1706-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 04:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 16:28	AJ	XEN MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-668 4.1'

Date Collected: 12/13/21 14:13

Date Received: 12/13/21 16:25

Lab Sample ID: 890-1706-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 04:30	CH	XEN MID

Client Sample ID: C-622 4.1'

Date Collected: 12/13/21 15:00

Date Received: 12/13/21 16:25

Lab Sample ID: 890-1706-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 05:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 16:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 04:36	CH	XEN MID

Client Sample ID: C-605 4.1'

Date Collected: 12/13/21 15:01

Date Received: 12/13/21 16:25

Lab Sample ID: 890-1706-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 05:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 17:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 04:56	CH	XEN MID

Client Sample ID: C-593 4.1'

Date Collected: 12/13/21 15:02

Date Received: 12/13/21 16:25

Lab Sample ID: 890-1706-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 05:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 17:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		5			14984	12/20/21 05:03	CH	XEN MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-584 4.1'

Lab Sample ID: 890-1706-11

Date Collected: 12/13/21 15:03

Matrix: Solid

Date Received: 12/13/21 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 06:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 17:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 05:09	CH	XEN MID

Client Sample ID: C-590 4.1'

Lab Sample ID: 890-1706-12

Date Collected: 12/13/21 15:04

Matrix: Solid

Date Received: 12/13/21 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 06:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 18:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 05:16	CH	XEN MID

Client Sample ID: C-589 4.1'

Lab Sample ID: 890-1706-13

Date Collected: 12/13/21 15:05

Matrix: Solid

Date Received: 12/13/21 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 06:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14803	12/15/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 05:23	CH	XEN MID

Client Sample ID: C-588 4.1'

Lab Sample ID: 890-1706-14

Date Collected: 12/13/21 15:06

Matrix: Solid

Date Received: 12/13/21 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 07:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:48	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Client Sample ID: C-588 4.1'

Lab Sample ID: 890-1706-14

Date Collected: 12/13/21 15:06

Matrix: Solid

Date Received: 12/13/21 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14794	12/14/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14897	12/16/21 14:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 05:29	CH	XEN MID

Client Sample ID: C-587 4.1'

Lab Sample ID: 890-1706-15

Date Collected: 12/13/21 15:07

Matrix: Solid

Date Received: 12/13/21 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	14760	12/14/21 10:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14700	12/15/21 07:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15211	12/20/21 15:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15045	12/17/21 09:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14794	12/14/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14897	12/16/21 15:10	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	14835	12/15/21 11:34	CA	XEN MID
Soluble	Analysis	300.0		1			14984	12/20/21 05:36	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1706-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

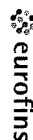
Job ID: 890-1706-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1706-1	C-649 3.5'	Solid	12/13/21 13:51	12/13/21 16:25	3.5
890-1706-2	C-647 3.5'	Solid	12/13/21 13:52	12/13/21 16:25	3.5
890-1706-3	C-765 2.5'	Solid	12/13/21 13:54	12/13/21 16:25	2.5
890-1706-4	C-664 3.5'	Solid	12/13/21 14:10	12/13/21 16:25	3.5
890-1706-5	C-663 3.5'	Solid	12/13/21 14:11	12/13/21 16:25	3.5
890-1706-6	C-659 4.1'	Solid	12/13/21 14:12	12/13/21 16:25	4.1
890-1706-7	C-668 4.1'	Solid	12/13/21 14:13	12/13/21 16:25	4.1
890-1706-8	C-622 4.1'	Solid	12/13/21 15:00	12/13/21 16:25	4.1
890-1706-9	C-605 4.1'	Solid	12/13/21 15:01	12/13/21 16:25	4.1
890-1706-10	C-593 4.1'	Solid	12/13/21 15:02	12/13/21 16:25	4.1
890-1706-11	C-584 4.1'	Solid	12/13/21 15:03	12/13/21 16:25	4.1
890-1706-12	C-590 4.1'	Solid	12/13/21 15:04	12/13/21 16:25	4.1
890-1706-13	C-589 4.1'	Solid	12/13/21 15:05	12/13/21 16:25	4.1
890-1706-14	C-588 4.1'	Solid	12/13/21 15:06	12/13/21 16:25	4.1
890-1706-15	C-587 4.1'	Solid	12/13/21 15:07	12/13/21 16:25	4.1

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad, NM 86220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact: Shipping/Receiving		Phone:	Taylor, Holly		890-544 1
Company: Eurofins Xenco		E-Mail	holly.taylor@eurofins.com	State of Origin	Page: Page 1 of 2
Address: 1211 W. Florida Ave.		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		New Mexico	Job #: 890-1706-1
City: Midland		Due Date Requested	Analysis Requested		
State, Zip: TX, 79701		TAT Requested (days)			
Phone: 432-704-5440 (Tel)		PO #:			
Email:		W/O #:			
Project Name: Palmco Ast		Project #:			
Site:		SSOW#:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weigher Serial, O=washbottle, BT=Tissue, A=Air)
C-649 (890-1706-1)	12/13/21	13:51			Solid
C-647 (890-1706-2)	12/13/21	13:52			Solid
C-765 (890-1706-3)	12/13/21	13:54			Solid
C-664 (890-1706-4)	12/13/21	14:10			Solid
C-665 (890-1706-5)	12/13/21	14:11			Solid
C-659 (890-1706-6)	12/13/21	14:12			Solid
C-668 (890-1706-7)	12/13/21	14:13			Solid
C-622 (890-1706-8)	12/13/21	15:00			Solid
C-605 (890-1706-9)	12/13/21	15:01			Solid
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out-of-contract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/shipment/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed Deliverable Requested I II III IV Other (Specify) Primary Deliverable Rank: 2					
Empty Kit Relinquished by: Date: Time: Method of Shipment:					
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:					
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:					
Custody Seals Intact: Custody Seal No: Cooler Temperature(s) °C and Other Remarks: 4/15/10 IPE					

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Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:
Client Contact: Shipping/Receiving		Phone:	Taylor, Holly		890-544 2
Company: Eurofins Xenco		E-Mail: holly.taylor@eurofinsnet.com	State of Origin: New Mexico	Page: Page 2 of 2	
Address: 1211 W Florida Ave.		Due Date Requested: 12/17/2021	Accreditations Required (See note): NEIAP - Louisiana, NEIAP - Texas		Job #: 890-1706-1
City: Midland		TAT Requested (days): 12/17/2021	Analysis Requested		
State Zip: TX, 79701					
Phone: 432-704-5440(Tel)		PO #:			
Email: 		W/O #:			
Project Name: Palmito Ast		Project #:			
Site: 		SSOW#:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=oil, B=BI=Biological, A=Air)
C-593 (890-1706-10)	12/13/21	15 02	Mountain		Solid
C-594 (890-1706-11)	12/13/21	15 03	Mountain		Solid
C-590 (890-1706-12)	12/13/21	15 04	Mountain		Solid
C-589 (890-1706-13)	12/13/21	15 05	Mountain		Solid
C-588 (890-1706-14)	12/13/21	15 06	Mountain		Solid
C-587 (890-1706-15)	12/13/21	15 07	Mountain		Solid
Field Filtered Sample (Yes or No)					
Perform MS/MSD (Yes or No)					
8015MOD_NM/8015NM_S_Prep (MOD) Full TPH					
8015MOD_Calc					
300_ORGFMM_28D/DI_LEACH Chloride					
8021B/5035FP_Calc (MOD) BTEX - LL					
Total_BTEX_GCV					
Total Number of containers					
Special Instructions/Note					
Preservation Codes					
A. HCL M. Hexane B. NaOH N. None C. Zn Acetate O. AsNaO2 D. Nitric Acid P. Na2O4S E. NaHSO4 Q. Na2SO3 F. MeOH R. Na2S2O3 G. Amchlor S. H2SO4 H. Ascorbic Acid T. TSP Dodecahydrate I. Ice U. Acetone J. DI Water V. MCAA K. EDTA W. pH 4.5 L. EDA Z. other (specify) Other:					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Unconfirmed					
Deliverable Requested I, II, III IV Other (specify) _____ Primary Deliverable Rank 2					
Empty Kit Relinquished by:					
Relinquished by: [Signature]		Date/Time: 12-14-21	Company: 	Received by: [Signature]	Date/Time: 12-14-21 9:00
Relinquished by: [Signature]		Date/Time: 12-14-21 13:14	Company: 	Received by: [Signature]	Date/Time:
Custody Seals Intact: Δ Yes Δ No		Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 4/15 10 IAB		

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1706-1

SDG Number: 21-0105-02

Login Number: 1706**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1706-1

SDG Number: 21-0105-02

Login Number: 1706**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 12/14/21 01:29 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1717-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: PALMIO AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/21/2021 6:20:04 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Laboratory Job ID: 890-1717-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⌘	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Job ID: 890-1717-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1717-1

Comments

No additional comments.

Receipt

The samples were received on 12/14/2021 3:36 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 26.0° C.

GC VOA

Methods 8021B, Total BTEX: Surrogate recovery for the following samples were outside control limits: C-491 2.5 (890-1717-6) and (880-9414-A-21-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-14981 and analytical batch 880-15012 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B NM: The continuing calibration verification (CCV) associated with batch 880-15012 recovered above the upper control limit for Diesel Range Organics (Over C10-C28) The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-15012/73).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Client Sample ID: C-616 4.1'

Lab Sample ID: 890-1717-1

Date Collected: 12/14/21 08:15

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/16/21 07:30	12/17/21 02:10	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/16/21 07:30	12/17/21 02:10	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/16/21 07:30	12/17/21 02:10	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/16/21 07:30	12/17/21 02:10	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/16/21 07:30	12/17/21 02:10	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/16/21 07:30	12/17/21 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/16/21 07:30	12/17/21 02:10	1
1,4-Difluorobenzene (Surr)	109		70 - 130	12/16/21 07:30	12/17/21 02:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/17/21 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/21/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/16/21 15:12	12/18/21 07:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/16/21 15:12	12/18/21 07:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/16/21 15:12	12/18/21 07:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	12/16/21 15:12	12/18/21 07:46	1
o-Terphenyl (Surr)	122		70 - 130	12/16/21 15:12	12/18/21 07:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	620		4.98	mg/Kg			12/19/21 15:56	1

Client Sample ID: C-515 4.1'

Lab Sample ID: 890-1717-2

Date Collected: 12/14/21 09:00

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:30	12/17/21 02:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:30	12/17/21 02:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:30	12/17/21 02:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/16/21 07:30	12/17/21 02:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:30	12/17/21 02:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/16/21 07:30	12/17/21 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	12/16/21 07:30	12/17/21 02:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Client Sample ID: C-515 4.1'

Lab Sample ID: 890-1717-2

Date Collected: 12/14/21 09:00

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	12/16/21 07:30	12/17/21 02:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/17/21 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/21/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/16/21 15:12	12/18/21 08:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/16/21 15:12	12/18/21 08:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/16/21 15:12	12/18/21 08:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			12/16/21 15:12	12/18/21 08:07	1
o-Terphenyl (Surr)	145	S1+	70 - 130			12/16/21 15:12	12/18/21 08:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.2		4.97	mg/Kg			12/19/21 16:32	1

Client Sample ID: C-524 3.5'

Lab Sample ID: 890-1717-3

Date Collected: 12/14/21 09:01

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/16/21 07:30	12/17/21 02:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/16/21 07:30	12/17/21 02:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/16/21 07:30	12/17/21 02:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/16/21 07:30	12/17/21 02:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/16/21 07:30	12/17/21 02:51	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/16/21 07:30	12/17/21 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/16/21 07:30	12/17/21 02:51	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/16/21 07:30	12/17/21 02:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/17/21 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/21/21 15:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Client Sample ID: C-524 3.5'

Lab Sample ID: 890-1717-3

Date Collected: 12/14/21 09:01

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 3.5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/16/21 15:12	12/18/21 08:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/16/21 15:12	12/18/21 08:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/16/21 15:12	12/18/21 08:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			12/16/21 15:12	12/18/21 08:28	1
o-Terphenyl (Surr)	119		70 - 130			12/16/21 15:12	12/18/21 08:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		4.95	mg/Kg			12/19/21 16:44	1

Client Sample ID: C-503 3.5'

Lab Sample ID: 890-1717-4

Date Collected: 12/14/21 09:02

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:30	12/17/21 03:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:30	12/17/21 03:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:30	12/17/21 03:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/16/21 07:30	12/17/21 03:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:30	12/17/21 03:11	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/16/21 07:30	12/17/21 03:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			12/16/21 07:30	12/17/21 03:11	1
1,4-Difluorobenzene (Surr)	111		70 - 130			12/16/21 07:30	12/17/21 03:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/17/21 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/21/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/16/21 15:12	12/18/21 08:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/16/21 15:12	12/18/21 08:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/16/21 15:12	12/18/21 08:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			12/16/21 15:12	12/18/21 08:49	1
o-Terphenyl (Surr)	149	S1+	70 - 130			12/16/21 15:12	12/18/21 08:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Client Sample ID: C-503 3.5'

Lab Sample ID: 890-1717-4

Date Collected: 12/14/21 09:02

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 3.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.4		4.96	mg/Kg			12/19/21 16:56	1

Client Sample ID: C-494 4.1

Lab Sample ID: 890-1717-5

Date Collected: 12/14/21 09:03

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/16/21 07:30	12/17/21 03:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/21 07:30	12/17/21 03:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/21 07:30	12/17/21 03:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/16/21 07:30	12/17/21 03:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/21 07:30	12/17/21 03:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/21 07:30	12/17/21 03:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			12/16/21 07:30	12/17/21 03:32	1
1,4-Difluorobenzene (Surr)	85		70 - 130			12/16/21 07:30	12/17/21 03:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/17/21 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/21/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/16/21 15:12	12/18/21 09:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/16/21 15:12	12/18/21 09:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/16/21 15:12	12/18/21 09:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			12/16/21 15:12	12/18/21 09:10	1
o-Terphenyl (Surr)	112		70 - 130			12/16/21 15:12	12/18/21 09:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	203		5.00	mg/Kg			12/19/21 17:08	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Client Sample ID: C-491 2.5

Lab Sample ID: 890-1717-6

Date Collected: 12/14/21 09:04

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/16/21 07:30	12/17/21 05:22	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/16/21 07:30	12/17/21 05:22	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/16/21 07:30	12/17/21 05:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/16/21 07:30	12/17/21 05:22	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/16/21 07:30	12/17/21 05:22	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/16/21 07:30	12/17/21 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	12/16/21 07:30	12/17/21 05:22	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/16/21 07:30	12/17/21 05:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/17/21 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/21/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 14:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 14:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	12/17/21 14:20	12/20/21 14:56	1
o-Terphenyl (Surr)	112		70 - 130	12/17/21 14:20	12/20/21 14:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.9		5.00	mg/Kg			12/19/21 17:19	1

Client Sample ID: C-979 2.0

Lab Sample ID: 890-1717-7

Date Collected: 12/14/21 14:00

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 2.0

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/16/21 07:30	12/17/21 05:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/16/21 07:30	12/17/21 05:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/16/21 07:30	12/17/21 05:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/16/21 07:30	12/17/21 05:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/16/21 07:30	12/17/21 05:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/16/21 07:30	12/17/21 05:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/16/21 07:30	12/17/21 05:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Client Sample ID: C-979 2.0

Lab Sample ID: 890-1717-7

Date Collected: 12/14/21 14:00

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 2.0

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	12/16/21 07:30	12/17/21 05:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/17/21 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/21/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/17/21 14:20	12/20/21 15:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/17/21 14:20	12/20/21 15:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/17/21 14:20	12/20/21 15:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			12/17/21 14:20	12/20/21 15:17	1
o-Terphenyl (Surr)	99		70 - 130			12/17/21 14:20	12/20/21 15:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	524		4.99	mg/Kg			12/19/21 17:31	1

Client Sample ID: C-378 4.1

Lab Sample ID: 890-1717-8

Date Collected: 12/14/21 10:40

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/16/21 07:30	12/17/21 06:03	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/16/21 07:30	12/17/21 06:03	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/16/21 07:30	12/17/21 06:03	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/16/21 07:30	12/17/21 06:03	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/16/21 07:30	12/17/21 06:03	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/16/21 07:30	12/17/21 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	12/16/21 07:30	12/17/21 06:03	1
1,4-Difluorobenzene (Surr)	92		70 - 130	12/16/21 07:30	12/17/21 06:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/17/21 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/21/21 15:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Client Sample ID: C-378 4.1

Lab Sample ID: 890-1717-8

Date Collected: 12/14/21 10:40

Matrix: Solid

Date Received: 12/14/21 15:36

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 15:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 15:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 15:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			12/17/21 14:20	12/20/21 15:37	1
o-Terphenyl (Surr)	103		70 - 130			12/17/21 14:20	12/20/21 15:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281		4.98	mg/Kg			12/19/21 17:43	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1717-1	C-616 4.1'	112	109
890-1717-2	C-515 4.1'	93	111
890-1717-3	C-524 3.5'	116	93
890-1717-4	C-503 3.5'	99	111
890-1717-5	C-494 4.1	124	85
890-1717-6	C-491 2.5	137 S1+	97
890-1717-7	C-979 2.0	118	98
890-1717-8	C-378 4.1	96	92
LCS 880-14828/1-A	Lab Control Sample	109	97
LCSD 880-14828/2-A	Lab Control Sample Dup	113	97
MB 880-14828/5-A	Method Blank	118	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: Total BTEX - Total BTEX Calculation

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB	DFBZ
880-9414-A-21-A MS	Matrix Spike		
880-9414-A-21-B MSD	Matrix Spike Duplicate		
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1713-A-1-D MS	Matrix Spike	72	76
890-1713-A-1-E MSD	Matrix Spike Duplicate	74	77
890-1717-1	C-616 4.1'	101	122
890-1717-2	C-515 4.1'	114	145 S1+
890-1717-3	C-524 3.5'	94	119
890-1717-4	C-503 3.5'	114	149 S1+
890-1717-5	C-494 4.1	90	112
890-1717-6	C-491 2.5	108	112
890-1717-7	C-979 2.0	98	99
890-1717-8	C-378 4.1	102	103
890-1727-A-21-I MS	Matrix Spike	113	98
890-1727-A-21-J MSD	Matrix Spike Duplicate	111	97
LCS 880-14981/2-A	Lab Control Sample	78	81
LCSD 880-14981/3-A	Lab Control Sample Dup	75	82
MB 880-14981/1-A	Method Blank	105	123
Surrogate Legend			

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1717-1

Project/Site: PALMIO AST

SDG: 21-0105-02

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO2	OTPH2
		(70-130)	(70-130)
LCS 880-15090/2-A	Lab Control Sample	100	97
LCSD 880-15090/3-A	Lab Control Sample Dup	110	116
MB 880-15090/1-A	Method Blank	142 S1+	233 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14828/5-A

Matrix: Solid

Analysis Batch: 14891

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14828

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:30	12/16/21 23:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:30	12/16/21 23:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:30	12/16/21 23:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/16/21 07:30	12/16/21 23:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:30	12/16/21 23:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/16/21 07:30	12/16/21 23:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/16/21 07:30	12/16/21 23:59	1
1,4-Difluorobenzene (Surr)	91		70 - 130	12/16/21 07:30	12/16/21 23:59	1

Lab Sample ID: LCS 880-14828/1-A

Matrix: Solid

Analysis Batch: 14891

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14828

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08235		mg/Kg		82	70 - 130
Toluene	0.100	0.08528		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.09015		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1748		mg/Kg		87	70 - 130
o-Xylene	0.100	0.08404		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-14828/2-A

Matrix: Solid

Analysis Batch: 14891

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14828

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09047		mg/Kg		90	70 - 130	9	35
Toluene	0.100	0.09010		mg/Kg		90	70 - 130	5	35
Ethylbenzene	0.100	0.09684		mg/Kg		97	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1843		mg/Kg		92	70 - 130	5	35
o-Xylene	0.100	0.09226		mg/Kg		92	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Method: Total BTEX - Total BTEX Calculation

Lab Sample ID: 880-9414-A-21-A MS

Matrix: Solid

Analysis Batch: 14891

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14936

Surrogate	MS %Recovery	MS Qualifier	Limits
1,4-Difluorobenzene (Surr)			
4-Bromofluorobenzene (Surr)			

Lab Sample ID: 880-9414-A-21-B MSD

Matrix: Solid

Analysis Batch: 14891

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14936

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,4-Difluorobenzene (Surr)			
4-Bromofluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-14981/1-A

Matrix: Solid

Analysis Batch: 15012

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14981

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/16/21 15:12	12/18/21 04:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/16/21 15:12	12/18/21 04:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/16/21 15:12	12/18/21 04:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			12/16/21 15:12	12/18/21 04:20	1
o-Terphenyl (Surr)	123		70 - 130			12/16/21 15:12	12/18/21 04:20	1

Lab Sample ID: LCS 880-14981/2-A

Matrix: Solid

Analysis Batch: 15012

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	909.7		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	706.6		mg/Kg		71	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	78		70 - 130				
o-Terphenyl (Surr)	81		70 - 130				

Lab Sample ID: LCSD 880-14981/3-A

Matrix: Solid

Analysis Batch: 15012

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14981

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	899.7		mg/Kg		90	70 - 130	1	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-14981/3-A

Matrix: Solid

Analysis Batch: 15012

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14981

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	709.1		mg/Kg		71	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	75		70 - 130
o-Terphenyl (Surr)	82		70 - 130

Lab Sample ID: 890-1713-A-1-D MS

Matrix: Solid

Analysis Batch: 15012

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	817.4		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	716.4	F1	mg/Kg		69	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	72		70 - 130
o-Terphenyl (Surr)	76		70 - 130

Lab Sample ID: 890-1713-A-1-E MSD

Matrix: Solid

Analysis Batch: 15012

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	904.1		mg/Kg		87	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	995	729.3		mg/Kg		70	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	74		70 - 130
o-Terphenyl (Surr)	77		70 - 130

Lab Sample ID: MB 880-15090/1-A

Matrix: Solid

Analysis Batch: 15096

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15090

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 12:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 12:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 12:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	142	S1+	70 - 130	12/17/21 14:20	12/20/21 12:12	1
o-Terphenyl (Surr)	233	S1+	70 - 130	12/17/21 14:20	12/20/21 12:12	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-15090/2-A

Matrix: Solid

Analysis Batch: 15096

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15090

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	883.9		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	935.7		mg/Kg		94	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	100		70 - 130								
o-Terphenyl (Surr)	97		70 - 130								

Lab Sample ID: LCSD 880-15090/3-A

Matrix: Solid

Analysis Batch: 15096

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15090

Top Entry 1000											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	924.4		mg/Kg		92	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	953.9		mg/Kg		95	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane (Surr)	110		70 - 130								
o-Terphenyl (Surr)	116		70 - 130								

Lab Sample ID: 890-1727-A-21-I MS

Matrix: Solid

Analysis Batch: 15096

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15090

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	1328		mg/Kg		129	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	1339	F1	mg/Kg		134	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	113		70 - 130								
o-Terphenyl (Surr)	98		70 - 130								

Lab Sample ID: 890-1727-A-21-J MSD

Matrix: Solid

Analysis Batch: 15096

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	995	1392	F1	mg/Kg	-	136	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	995	1328	F1	mg/Kg		133	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	111		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1727-A-21-J MSD

Matrix: Solid

Analysis Batch: 15096

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15090

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15034/1-A

Matrix: Solid

Analysis Batch: 15133

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			12/19/21 11:47	1	

Lab Sample ID: LCS 880-15034/2-A

Matrix: Solid

Analysis Batch: 15133

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	
Chloride	250	269.4		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-15034/3-A

Matrix: Solid

Analysis Batch: 15133

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
Chloride	250	266.6		mg/Kg		107	90 - 110	1	20	

Lab Sample ID: 890-1716-A-3-G MS

Matrix: Solid

Analysis Batch: 15133

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS					
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits
Chloride	40.3		250	301.7		mg/Kg		105	90 - 110	

Lab Sample ID: 890-1716-A-3-H MSD

Matrix: Solid

Analysis Batch: 15133

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD						
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	RPD
Chloride	40.3		250	305.1		mg/Kg		106	90 - 110	1	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

GC VOA

Prep Batch: 14828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1717-1	C-616 4.1'	Total/NA	Solid	5035	
890-1717-2	C-515 4.1'	Total/NA	Solid	5035	
890-1717-3	C-524 3.5'	Total/NA	Solid	5035	
890-1717-4	C-503 3.5'	Total/NA	Solid	5035	
890-1717-5	C-494 4.1	Total/NA	Solid	5035	
890-1717-6	C-491 2.5	Total/NA	Solid	5035	
890-1717-7	C-979 2.0	Total/NA	Solid	5035	
890-1717-8	C-378 4.1	Total/NA	Solid	5035	
MB 880-14828/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14828/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14828/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 14891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1717-1	C-616 4.1'	Total/NA	Solid	8021B	14828
890-1717-2	C-515 4.1'	Total/NA	Solid	8021B	14828
890-1717-3	C-524 3.5'	Total/NA	Solid	8021B	14828
890-1717-4	C-503 3.5'	Total/NA	Solid	8021B	14828
890-1717-5	C-494 4.1	Total/NA	Solid	8021B	14828
890-1717-6	C-491 2.5	Total/NA	Solid	8021B	14828
890-1717-7	C-979 2.0	Total/NA	Solid	8021B	14828
890-1717-8	C-378 4.1	Total/NA	Solid	8021B	14828
MB 880-14828/5-A	Method Blank	Total/NA	Solid	8021B	14828
MB 880-14936/5-A	Method Blank	Total/NA	Solid	Total BTEX	14936
LCS 880-14828/1-A	Lab Control Sample	Total/NA	Solid	8021B	14828
LCS 880-14936/1-A	Lab Control Sample	Total/NA	Solid	Total BTEX	14936
LCSD 880-14828/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14828
LCSD 880-14936/2-A	Lab Control Sample Dup	Total/NA	Solid	Total BTEX	14936
880-9414-A-21-A MS	Matrix Spike	Total/NA	Solid	Total BTEX	14936
880-9414-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	Total BTEX	14936

Prep Batch: 14936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-14936/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14936/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14936/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9414-A-21-A MS	Matrix Spike	Total/NA	Solid	5035	
880-9414-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1717-1	C-616 4.1'	Total/NA	Solid	Total BTEX	
890-1717-2	C-515 4.1'	Total/NA	Solid	Total BTEX	
890-1717-3	C-524 3.5'	Total/NA	Solid	Total BTEX	
890-1717-4	C-503 3.5'	Total/NA	Solid	Total BTEX	
890-1717-5	C-494 4.1	Total/NA	Solid	Total BTEX	
890-1717-6	C-491 2.5	Total/NA	Solid	Total BTEX	
890-1717-7	C-979 2.0	Total/NA	Solid	Total BTEX	
890-1717-8	C-378 4.1	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 14981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1717-1	C-616 4.1'	Total/NA	Solid	8015NM Prep	
890-1717-2	C-515 4.1'	Total/NA	Solid	8015NM Prep	
890-1717-3	C-524 3.5'	Total/NA	Solid	8015NM Prep	
890-1717-4	C-503 3.5'	Total/NA	Solid	8015NM Prep	
890-1717-5	C-494 4.1	Total/NA	Solid	8015NM Prep	
MB 880-14981/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14981/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14981/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1713-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1713-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1717-1	C-616 4.1'	Total/NA	Solid	8015B NM	14981
890-1717-2	C-515 4.1'	Total/NA	Solid	8015B NM	14981
890-1717-3	C-524 3.5'	Total/NA	Solid	8015B NM	14981
890-1717-4	C-503 3.5'	Total/NA	Solid	8015B NM	14981
890-1717-5	C-494 4.1	Total/NA	Solid	8015B NM	14981
MB 880-14981/1-A	Method Blank	Total/NA	Solid	8015B NM	14981
LCS 880-14981/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14981
LCSD 880-14981/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14981
890-1713-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	14981
890-1713-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14981

Prep Batch: 15090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1717-6	C-491 2.5	Total/NA	Solid	8015NM Prep	
890-1717-7	C-979 2.0	Total/NA	Solid	8015NM Prep	
890-1717-8	C-378 4.1	Total/NA	Solid	8015NM Prep	
MB 880-15090/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15090/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15090/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1727-A-21-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1727-A-21-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1717-6	C-491 2.5	Total/NA	Solid	8015B NM	15090
890-1717-7	C-979 2.0	Total/NA	Solid	8015B NM	15090
890-1717-8	C-378 4.1	Total/NA	Solid	8015B NM	15090
MB 880-15090/1-A	Method Blank	Total/NA	Solid	8015B NM	15090
LCS 880-15090/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15090
LCSD 880-15090/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15090
890-1727-A-21-I MS	Matrix Spike	Total/NA	Solid	8015B NM	15090
890-1727-A-21-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15090

Analysis Batch: 15281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1717-1	C-616 4.1'	Total/NA	Solid	8015 NM	
890-1717-2	C-515 4.1'	Total/NA	Solid	8015 NM	
890-1717-3	C-524 3.5'	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 15281 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1717-4	C-503 3.5'	Total/NA	Solid	8015 NM	
890-1717-5	C-494 4.1	Total/NA	Solid	8015 NM	
890-1717-6	C-491 2.5	Total/NA	Solid	8015 NM	
890-1717-7	C-979 2.0	Total/NA	Solid	8015 NM	
890-1717-8	C-378 4.1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1717-1	C-616 4.1'	Soluble	Solid	DI Leach	
890-1717-2	C-515 4.1'	Soluble	Solid	DI Leach	
890-1717-3	C-524 3.5'	Soluble	Solid	DI Leach	
890-1717-4	C-503 3.5'	Soluble	Solid	DI Leach	
890-1717-5	C-494 4.1	Soluble	Solid	DI Leach	
890-1717-6	C-491 2.5	Soluble	Solid	DI Leach	
890-1717-7	C-979 2.0	Soluble	Solid	DI Leach	
890-1717-8	C-378 4.1	Soluble	Solid	DI Leach	
MB 880-15034/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15034/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15034/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1716-A-3-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1716-A-3-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 15133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1717-1	C-616 4.1'	Soluble	Solid	300.0	15034
890-1717-2	C-515 4.1'	Soluble	Solid	300.0	15034
890-1717-3	C-524 3.5'	Soluble	Solid	300.0	15034
890-1717-4	C-503 3.5'	Soluble	Solid	300.0	15034
890-1717-5	C-494 4.1	Soluble	Solid	300.0	15034
890-1717-6	C-491 2.5	Soluble	Solid	300.0	15034
890-1717-7	C-979 2.0	Soluble	Solid	300.0	15034
890-1717-8	C-378 4.1	Soluble	Solid	300.0	15034
MB 880-15034/1-A	Method Blank	Soluble	Solid	300.0	15034
LCS 880-15034/2-A	Lab Control Sample	Soluble	Solid	300.0	15034
LCSD 880-15034/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15034
890-1716-A-3-G MS	Matrix Spike	Soluble	Solid	300.0	15034
890-1716-A-3-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15034

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Client Sample ID: C-616 4.1'

Lab Sample ID: 890-1717-1

Date Collected: 12/14/21 08:15

Matrix: Solid

Date Received: 12/14/21 15:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	14828	12/16/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14891	12/17/21 02:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15026	12/17/21 08:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			15281	12/21/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14981	12/16/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15012	12/18/21 07:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	15034	12/17/21 08:50	CA	XEN MID
Soluble	Analysis	300.0		1			15133	12/19/21 15:56	SC	XEN MID

Client Sample ID: C-515 4.1'

Lab Sample ID: 890-1717-2

Date Collected: 12/14/21 09:00

Matrix: Solid

Date Received: 12/14/21 15:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	14828	12/16/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14891	12/17/21 02:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15026	12/17/21 08:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			15281	12/21/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14981	12/16/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15012	12/18/21 08:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	15034	12/17/21 08:50	CA	XEN MID
Soluble	Analysis	300.0		1			15133	12/19/21 16:32	SC	XEN MID

Client Sample ID: C-524 3.5'

Lab Sample ID: 890-1717-3

Date Collected: 12/14/21 09:01

Matrix: Solid

Date Received: 12/14/21 15:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	14828	12/16/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14891	12/17/21 02:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15026	12/17/21 08:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			15281	12/21/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14981	12/16/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15012	12/18/21 08:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	15034	12/17/21 08:50	CA	XEN MID
Soluble	Analysis	300.0		1			15133	12/19/21 16:44	SC	XEN MID

Client Sample ID: C-503 3.5'

Lab Sample ID: 890-1717-4

Date Collected: 12/14/21 09:02

Matrix: Solid

Date Received: 12/14/21 15:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	14828	12/16/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14891	12/17/21 03:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15026	12/17/21 08:43	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Client Sample ID: C-503 3.5'

Date Collected: 12/14/21 09:02

Date Received: 12/14/21 15:36

Lab Sample ID: 890-1717-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			15281	12/21/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14981	12/16/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15012	12/18/21 08:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	15034	12/17/21 08:50	CA	XEN MID
Soluble	Analysis	300.0		1			15133	12/19/21 16:56	SC	XEN MID

Client Sample ID: C-494 4.1

Date Collected: 12/14/21 09:03

Date Received: 12/14/21 15:36

Lab Sample ID: 890-1717-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	14828	12/16/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14891	12/17/21 03:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15026	12/17/21 08:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			15281	12/21/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14981	12/16/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15012	12/18/21 09:10	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15034	12/17/21 08:50	CA	XEN MID
Soluble	Analysis	300.0		1			15133	12/19/21 17:08	SC	XEN MID

Client Sample ID: C-491 2.5

Date Collected: 12/14/21 09:04

Date Received: 12/14/21 15:36

Lab Sample ID: 890-1717-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	14828	12/16/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14891	12/17/21 05:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15026	12/17/21 08:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			15281	12/21/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15090	12/17/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15096	12/20/21 14:56	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15034	12/17/21 08:50	CA	XEN MID
Soluble	Analysis	300.0		1			15133	12/19/21 17:19	SC	XEN MID

Client Sample ID: C-979 2.0

Date Collected: 12/14/21 14:00

Date Received: 12/14/21 15:36

Lab Sample ID: 890-1717-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	14828	12/16/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14891	12/17/21 05:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15026	12/17/21 08:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			15281	12/21/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	15090	12/17/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15096	12/20/21 15:17	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Client Sample ID: C-979 2.0

Lab Sample ID: 890-1717-7

Date Collected: 12/14/21 14:00

Matrix: Solid

Date Received: 12/14/21 15:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	15034	12/17/21 08:50	CA	XEN MID
Soluble	Analysis	300.0		1			15133	12/19/21 17:31	SC	XEN MID

Client Sample ID: C-378 4.1

Lab Sample ID: 890-1717-8

Date Collected: 12/14/21 10:40

Matrix: Solid

Date Received: 12/14/21 15:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	14828	12/16/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14891	12/17/21 06:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15026	12/17/21 08:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			15281	12/21/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	15090	12/17/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15096	12/20/21 15:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	15034	12/17/21 08:50	CA	XEN MID
Soluble	Analysis	300.0		1			15133	12/19/21 17:43	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1717-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1717-1	C-616 4.1'	Solid	12/14/21 08:15	12/14/21 15:36	4.1
890-1717-2	C-515 4.1'	Solid	12/14/21 09:00	12/14/21 15:36	4.1
890-1717-3	C-524 3.5'	Solid	12/14/21 09:01	12/14/21 15:36	3.5
890-1717-4	C-503 3.5'	Solid	12/14/21 09:02	12/14/21 15:36	3.5
890-1717-5	C-494 4.1	Solid	12/14/21 09:03	12/14/21 15:36	4.1
890-1717-6	C-491 2.5	Solid	12/14/21 09:04	12/14/21 15:36	2.5
890-1717-7	C-979 2.0	Solid	12/14/21 14:00	12/14/21 15:36	2.0
890-1717-8	C-378 4.1	Solid	12/14/21 10:40	12/14/21 15:36	4.1

Carson & Associates, Inc.
Environmental Consultants

890-1717 Chain of Custody



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- 12
- 13
- 14

No. 2324

CHAIN-OF-CUSTODY

DATE: 12-14-21

PAGE 1 OF 1

PO#:

LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Palmie Ast

LAI PROJECT #:

21-0105-02

COLLECTOR: TP

Data Reported to

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State
MST/NM

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄

NaOH

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX

TPH 1005

TPH 1006

TPH 1007

TPH 1008

TPH 1009

TPH 1010

TPH 1011

TPH 1012

TPH 1013

TPH 1014

TPH 1015

TPH 1016

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Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



eurofins
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:
Client Contact	Phone:	Taylor, Holly			890-548 1
Shipping/Receiving	E-Mail:	holly.taylor@eurofinsnet.com	State of Origin:	Page	Page 1 of 1
Company	Accreditations Required (See note):	NELAP - Louisiana, NELAP - Texas	New Mexico	Job #	890-1717-1
Eurofins Xenco					
Address	Due Date Requested	12/20/2021			
City	TAT Requested (days):				
Midland					
State Zip:					
TX 79701					
Phone:	PO #				
432-704-5440(Tel)					
Email	WO #				
Project Name:	Project #	89000025			
PALMIO AST	SSOW#				
Site					
Sample Identification - Client ID (Lab ID)					
C-616 (890-1717-1)	Sample Date	12/14/21	Sample Time	08 15	Matrix (W=water, S=solid, O=oil, B=bitumen, A=air)
C-515 (890-1717-2)	12/14/21	Mountain	09 00	Solid	
C-524 (890-1717-3)	12/14/21	Mountain	09 01	Solid	
C-503 (890-1717-4)	12/14/21	Mountain	09 02	Solid	
C-494 (890-1717-5)	12/14/21	Mountain	09 03	Solid	
C-491 (890-1717-6)	12/14/21	Mountain	09 04	Solid	
C-979 (890-1717-7)	12/14/21	Mountain	14 00	Solid	
C-378 (890-1717-8)	12/14/21	Mountain	10 40	Solid	
Field Filtered Sample (Yes or No)					
Perform MS/MSD (Yes or No)					
8015MOD_NM/8015NM_S_Prep (MOD) Full TPH					
8015MOD_Calc					
300_ORGFM_28D/DI_LEACH Chloride					
8021B/6035FP_Calc (MOD) BTEX - LL					
Total_BTEX_GCV					
Analysis Requested					
Preservation Codes					
A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amelior H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA Other: M. Hexane N. None O. AsH2O2 P. Na2CO3 Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecylhydrate U. Acetone V. MCAA W. pH 4-5 Z. other (specify)					
Special Instructions/Note:					
Total Number of containers					
1					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months					
Unconfirmed					
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2					
Empty Kit Relinquished by					
Relinquished by		Date/Time	Company	Received by	Date/Time
Relinquished by		Date/Time	Company	Received by	Date/Time
Relinquished by		Date/Time	Company	Received by	Date/Time
Custody Seals Intact		Custody Seal No	Cooler Temperature(s) °C and Other Remarks		
Δ Yes Δ No					

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1717-1

SDG Number: 21-0105-02

Login Number: 1717

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1717-1

SDG Number: 21-0105-02

Login Number: 1717

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland

List Creation: 12/16/21 01:22 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1723-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio Ast

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/23/2021 11:47:58 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Laboratory Job ID: 890-1723-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Job ID: 890-1723-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative	
	Job Narrative 890-1723-1

Receipt

The samples were received on 12/15/2021 3:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 21.8°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Client Sample ID: C-984 4.1

Lab Sample ID: 890-1723-1

Date Collected: 12/15/21 08:30

Matrix: Solid

Date Received: 12/15/21 15:09

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/17/21 07:45	12/17/21 18:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/17/21 07:45	12/17/21 18:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/17/21 07:45	12/17/21 18:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/17/21 07:45	12/17/21 18:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/17/21 07:45	12/17/21 18:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/17/21 07:45	12/17/21 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/17/21 07:45	12/17/21 18:44	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/17/21 07:45	12/17/21 18:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/21/21 14:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/23/21 12:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 18:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 18:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130	12/17/21 14:20	12/20/21 18:01	1
o-Terphenyl (Surr)	121		70 - 130	12/17/21 14:20	12/20/21 18:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		4.95	mg/Kg			12/20/21 11:35	1

Client Sample ID: C-985 4.1

Lab Sample ID: 890-1723-2

Date Collected: 12/15/21 08:45

Matrix: Solid

Date Received: 12/15/21 15:09

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/17/21 07:45	12/17/21 19:04	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/17/21 07:45	12/17/21 19:04	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/17/21 07:45	12/17/21 19:04	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/17/21 07:45	12/17/21 19:04	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/17/21 07:45	12/17/21 19:04	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/17/21 07:45	12/17/21 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/17/21 07:45	12/17/21 19:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Client Sample ID: C-985 4.1

Lab Sample ID: 890-1723-2

Date Collected: 12/15/21 08:45

Matrix: Solid

Date Received: 12/15/21 15:09

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	12/17/21 07:45	12/17/21 19:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/21/21 14:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/23/21 12:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 18:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 18:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 18:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			12/17/21 14:20	12/20/21 18:22	1
o-Terphenyl (Surr)	100		70 - 130			12/17/21 14:20	12/20/21 18:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		25.1	mg/Kg			12/20/21 11:42	5

Client Sample ID: C-986 4.1

Lab Sample ID: 890-1723-3

Date Collected: 12/15/21 09:30

Matrix: Solid

Date Received: 12/15/21 15:09

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/17/21 07:45	12/17/21 19:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/17/21 07:45	12/17/21 19:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/17/21 07:45	12/17/21 19:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/17/21 07:45	12/17/21 19:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/17/21 07:45	12/17/21 19:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/17/21 07:45	12/17/21 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	382	S1+	70 - 130	12/17/21 07:45	12/17/21 19:25	1
1,4-Difluorobenzene (Surr)	307	S1+	70 - 130	12/17/21 07:45	12/17/21 19:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/21/21 14:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/23/21 12:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Client Sample ID: C-986 4.1

Lab Sample ID: 890-1723-3

Date Collected: 12/15/21 09:30

Matrix: Solid

Date Received: 12/15/21 15:09

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 18:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 18:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 18:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			12/17/21 14:20	12/20/21 18:42	1
o-Terphenyl (Surr)	97		70 - 130			12/17/21 14:20	12/20/21 18:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		4.98	mg/Kg			12/20/21 11:49	1

Client Sample ID: C-987 4.1

Lab Sample ID: 890-1723-4

Date Collected: 12/15/21 13:00

Matrix: Solid

Date Received: 12/15/21 15:09

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/17/21 07:45	12/17/21 19:45	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/17/21 07:45	12/17/21 19:45	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/17/21 07:45	12/17/21 19:45	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/17/21 07:45	12/17/21 19:45	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/17/21 07:45	12/17/21 19:45	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/17/21 07:45	12/17/21 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			12/17/21 07:45	12/17/21 19:45	1
1,4-Difluorobenzene (Surr)	112		70 - 130			12/17/21 07:45	12/17/21 19:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/21/21 14:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/23/21 12:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 19:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 19:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			12/17/21 14:20	12/20/21 19:02	1
o-Terphenyl (Surr)	103		70 - 130			12/17/21 14:20	12/20/21 19:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Client Sample ID: C-987 4.1

Lab Sample ID: 890-1723-4

Date Collected: 12/15/21 13:00

Matrix: Solid

Date Received: 12/15/21 15:09

Sample Depth: 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1130		4.99	mg/Kg			12/20/21 11:55	1

Client Sample ID: C-989 4.1

Lab Sample ID: 890-1723-5

Date Collected: 12/15/21 13:45

Matrix: Solid

Date Received: 12/15/21 15:09

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/17/21 07:45	12/17/21 20:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/17/21 07:45	12/17/21 20:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/17/21 07:45	12/17/21 20:06	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/17/21 07:45	12/17/21 20:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/17/21 07:45	12/17/21 20:06	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/17/21 07:45	12/17/21 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			12/17/21 07:45	12/17/21 20:06	1
1,4-Difluorobenzene (Surr)	103		70 - 130			12/17/21 07:45	12/17/21 20:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/21/21 14:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/23/21 12:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 19:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 19:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/17/21 14:20	12/20/21 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			12/17/21 14:20	12/20/21 19:23	1
o-Terphenyl (Surr)	96		70 - 130			12/17/21 14:20	12/20/21 19:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		25.1	mg/Kg			12/20/21 12:15	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Client Sample ID: C-990 4.1

Lab Sample ID: 890-1723-6

Date Collected: 12/15/21 13:46

Matrix: Solid

Date Received: 12/15/21 15:09

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/17/21 07:45	12/17/21 20:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/17/21 07:45	12/17/21 20:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/17/21 07:45	12/17/21 20:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/17/21 07:45	12/17/21 20:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/17/21 07:45	12/17/21 20:26	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/17/21 07:45	12/17/21 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/17/21 07:45	12/17/21 20:26	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/17/21 07:45	12/17/21 20:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/21/21 14:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/23/21 12:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 19:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	12/17/21 14:20	12/20/21 19:43	1
o-Terphenyl (Surr)	105		70 - 130	12/17/21 14:20	12/20/21 19:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	843		4.98	mg/Kg			12/20/21 12:22	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9270-A-21-D MS	Matrix Spike	109	100
880-9270-A-21-E MSD	Matrix Spike Duplicate	106	95
890-1723-1	C-984 4.1	126	107
890-1723-2	C-985 4.1	119	105
890-1723-3	C-986 4.1	382 S1+	307 S1+
890-1723-4	C-987 4.1	129	112
890-1723-5	C-989 4.1	125	103
890-1723-6	C-990 4.1	118	104
LCS 880-14948/1-A	Lab Control Sample	103	97
LCSD 880-14948/2-A	Lab Control Sample Dup	102	95
MB 880-14948/5-A	Method Blank	115	108
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1723-1	C-984 4.1	120	121
890-1723-2	C-985 4.1	100	100
890-1723-3	C-986 4.1	95	97
890-1723-4	C-987 4.1	100	103
890-1723-5	C-989 4.1	96	96
890-1723-6	C-990 4.1	105	105
890-1727-A-21-I MS	Matrix Spike	113	98
890-1727-A-21-J MSD	Matrix Spike Duplicate	111	97
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-15090/2-A	Lab Control Sample	100	97
LCSD 880-15090/3-A	Lab Control Sample Dup	110	116
MB 880-15090/1-A	Method Blank	142 S1+	233 S1+
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14948/5-A

Matrix: Solid

Analysis Batch: 15017

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14948

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/17/21 07:45	12/17/21 11:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/17/21 07:45	12/17/21 11:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/17/21 07:45	12/17/21 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/17/21 07:45	12/17/21 11:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/17/21 07:45	12/17/21 11:31	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/17/21 07:45	12/17/21 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/17/21 07:45	12/17/21 11:31	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/17/21 07:45	12/17/21 11:31	1

Lab Sample ID: LCS 880-14948/1-A

Matrix: Solid

Analysis Batch: 15017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07475		mg/Kg		75	70 - 130
Toluene	0.100	0.07368		mg/Kg		74	70 - 130
Ethylbenzene	0.100	0.07658		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1602		mg/Kg		80	70 - 130
o-Xylene	0.100	0.07919		mg/Kg		79	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-14948/2-A

Matrix: Solid

Analysis Batch: 15017

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14948

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07437		mg/Kg		74	70 - 130	1	35
Toluene	0.100	0.07413		mg/Kg		74	70 - 130	1	35
Ethylbenzene	0.100	0.07081		mg/Kg		71	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1468		mg/Kg		73	70 - 130	9	35
o-Xylene	0.100	0.07575		mg/Kg		76	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-9270-A-21-D MS

Matrix: Solid

Analysis Batch: 15017

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14948

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0994	0.06210	F1	mg/Kg		62	70 - 130
Toluene	<0.00199	U F1	0.0994	0.06033	F1	mg/Kg		61	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-9270-A-21-D MS

Matrix: Solid

Analysis Batch: 15017

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14948

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F1	0.0994	0.06165	F1	mg/Kg		62	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1291	F1	mg/Kg		65	70 - 130
o-Xylene	<0.00199	U F1	0.0994	0.06691	F1	mg/Kg		67	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-9270-A-21-E MSD

Matrix: Solid

Analysis Batch: 15017

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14948

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.06118	F1	mg/Kg		61	70 - 130	2	35
Toluene	<0.00199	U F1	0.100	0.06189	F1	mg/Kg		62	70 - 130	3	35
Ethylbenzene	<0.00199	U F1	0.100	0.06189	F1	mg/Kg		62	70 - 130	0	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1306	F1	mg/Kg		65	70 - 130	1	35
o-Xylene	<0.00199	U F1	0.100	0.06416	F1	mg/Kg		64	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-15090/1-A

Matrix: Solid

Analysis Batch: 15096

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15090

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 12:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 12:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/17/21 14:20	12/20/21 12:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	142	S1+	70 - 130	12/17/21 14:20	12/20/21 12:12	1
o-Terphenyl (Surr)	233	S1+	70 - 130	12/17/21 14:20	12/20/21 12:12	1

Lab Sample ID: LCS 880-15090/2-A

Matrix: Solid

Analysis Batch: 15096

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	883.9		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	935.7		mg/Kg		94	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-15090/2-A

Matrix: Solid

Analysis Batch: 15096

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15090

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-15090/3-A

Matrix: Solid

Analysis Batch: 15096

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15090

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	924.4		mg/Kg		92	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	953.9		mg/Kg		95	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	116		70 - 130

Lab Sample ID: 890-1727-A-21-I MS

Matrix: Solid

Analysis Batch: 15096

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	1328		mg/Kg		129	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	1339	F1	mg/Kg		134	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	98		70 - 130

Lab Sample ID: 890-1727-A-21-J MSD

Matrix: Solid

Analysis Batch: 15096

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	995	1392	F1	mg/Kg		136	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	995	1328	F1	mg/Kg		133	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	97		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15089/1-A

Matrix: Solid

Analysis Batch: 15128

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/20/21 10:02	1

Lab Sample ID: LCS 880-15089/2-A

Matrix: Solid

Analysis Batch: 15128

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	265.7		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-15089/3-A

Matrix: Solid

Analysis Batch: 15128

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	271.6		mg/Kg		109	90 - 110	2	20

Lab Sample ID: 890-1723-4 MS

Matrix: Solid

Analysis Batch: 15128

Client Sample ID: C-987 4.1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1130		250	1377	4	mg/Kg		100	90 - 110

Lab Sample ID: 890-1723-4 MSD

Matrix: Solid

Analysis Batch: 15128

Client Sample ID: C-987 4.1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1130		250	1372	4	mg/Kg		98	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

GC VOA

Prep Batch: 14948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1723-1	C-984 4.1	Total/NA	Solid	5035	
890-1723-2	C-985 4.1	Total/NA	Solid	5035	
890-1723-3	C-986 4.1	Total/NA	Solid	5035	
890-1723-4	C-987 4.1	Total/NA	Solid	5035	
890-1723-5	C-989 4.1	Total/NA	Solid	5035	
890-1723-6	C-990 4.1	Total/NA	Solid	5035	
MB 880-14948/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14948/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14948/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9270-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
880-9270-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1723-1	C-984 4.1	Total/NA	Solid	8021B	14948
890-1723-2	C-985 4.1	Total/NA	Solid	8021B	14948
890-1723-3	C-986 4.1	Total/NA	Solid	8021B	14948
890-1723-4	C-987 4.1	Total/NA	Solid	8021B	14948
890-1723-5	C-989 4.1	Total/NA	Solid	8021B	14948
890-1723-6	C-990 4.1	Total/NA	Solid	8021B	14948
MB 880-14948/5-A	Method Blank	Total/NA	Solid	8021B	14948
LCS 880-14948/1-A	Lab Control Sample	Total/NA	Solid	8021B	14948
LCSD 880-14948/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14948
880-9270-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	14948
880-9270-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14948

Analysis Batch: 15276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1723-1	C-984 4.1	Total/NA	Solid	Total BTEX	
890-1723-2	C-985 4.1	Total/NA	Solid	Total BTEX	
890-1723-3	C-986 4.1	Total/NA	Solid	Total BTEX	
890-1723-4	C-987 4.1	Total/NA	Solid	Total BTEX	
890-1723-5	C-989 4.1	Total/NA	Solid	Total BTEX	
890-1723-6	C-990 4.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1723-1	C-984 4.1	Total/NA	Solid	8015NM Prep	
890-1723-2	C-985 4.1	Total/NA	Solid	8015NM Prep	
890-1723-3	C-986 4.1	Total/NA	Solid	8015NM Prep	
890-1723-4	C-987 4.1	Total/NA	Solid	8015NM Prep	
890-1723-5	C-989 4.1	Total/NA	Solid	8015NM Prep	
890-1723-6	C-990 4.1	Total/NA	Solid	8015NM Prep	
MB 880-15090/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15090/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15090/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1727-A-21-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1727-A-21-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 15096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1723-1	C-984 4.1	Total/NA	Solid	8015B NM	15090
890-1723-2	C-985 4.1	Total/NA	Solid	8015B NM	15090
890-1723-3	C-986 4.1	Total/NA	Solid	8015B NM	15090
890-1723-4	C-987 4.1	Total/NA	Solid	8015B NM	15090
890-1723-5	C-989 4.1	Total/NA	Solid	8015B NM	15090
890-1723-6	C-990 4.1	Total/NA	Solid	8015B NM	15090
MB 880-15090/1-A	Method Blank	Total/NA	Solid	8015B NM	15090
LCS 880-15090/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15090
LCSD 880-15090/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15090
890-1727-A-21-I MS	Matrix Spike	Total/NA	Solid	8015B NM	15090
890-1727-A-21-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15090

Analysis Batch: 15468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1723-1	C-984 4.1	Total/NA	Solid	8015 NM	
890-1723-2	C-985 4.1	Total/NA	Solid	8015 NM	
890-1723-3	C-986 4.1	Total/NA	Solid	8015 NM	
890-1723-4	C-987 4.1	Total/NA	Solid	8015 NM	
890-1723-5	C-989 4.1	Total/NA	Solid	8015 NM	
890-1723-6	C-990 4.1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1723-1	C-984 4.1	Soluble	Solid	DI Leach	
890-1723-2	C-985 4.1	Soluble	Solid	DI Leach	
890-1723-3	C-986 4.1	Soluble	Solid	DI Leach	
890-1723-4	C-987 4.1	Soluble	Solid	DI Leach	
890-1723-5	C-989 4.1	Soluble	Solid	DI Leach	
890-1723-6	C-990 4.1	Soluble	Solid	DI Leach	
MB 880-15089/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15089/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15089/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1723-4 MS	C-987 4.1	Soluble	Solid	DI Leach	
890-1723-4 MSD	C-987 4.1	Soluble	Solid	DI Leach	

Analysis Batch: 15128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1723-1	C-984 4.1	Soluble	Solid	300.0	15089
890-1723-2	C-985 4.1	Soluble	Solid	300.0	15089
890-1723-3	C-986 4.1	Soluble	Solid	300.0	15089
890-1723-4	C-987 4.1	Soluble	Solid	300.0	15089
890-1723-5	C-989 4.1	Soluble	Solid	300.0	15089
890-1723-6	C-990 4.1	Soluble	Solid	300.0	15089
MB 880-15089/1-A	Method Blank	Soluble	Solid	300.0	15089
LCS 880-15089/2-A	Lab Control Sample	Soluble	Solid	300.0	15089
LCSD 880-15089/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15089
890-1723-4 MS	C-987 4.1	Soluble	Solid	300.0	15089
890-1723-4 MSD	C-987 4.1	Soluble	Solid	300.0	15089

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Client Sample ID: C-984 4.1

Lab Sample ID: 890-1723-1

Date Collected: 12/15/21 08:30

Matrix: Solid

Date Received: 12/15/21 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	14948	12/17/21 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15017	12/17/21 18:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15468	12/23/21 12:30	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	15090	12/17/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15096	12/20/21 18:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	15089	12/17/21 14:11	CA	XEN MID
Soluble	Analysis	300.0		1			15128	12/20/21 11:35	CH	XEN MID

Client Sample ID: C-985 4.1

Lab Sample ID: 890-1723-2

Date Collected: 12/15/21 08:45

Matrix: Solid

Date Received: 12/15/21 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	14948	12/17/21 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15017	12/17/21 19:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15468	12/23/21 12:30	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	15090	12/17/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15096	12/20/21 18:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	15089	12/17/21 14:11	CA	XEN MID
Soluble	Analysis	300.0		5			15128	12/20/21 11:42	CH	XEN MID

Client Sample ID: C-986 4.1

Lab Sample ID: 890-1723-3

Date Collected: 12/15/21 09:30

Matrix: Solid

Date Received: 12/15/21 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	14948	12/17/21 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15017	12/17/21 19:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15468	12/23/21 12:30	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	15090	12/17/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15096	12/20/21 18:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	15089	12/17/21 14:11	CA	XEN MID
Soluble	Analysis	300.0		1			15128	12/20/21 11:49	CH	XEN MID

Client Sample ID: C-987 4.1

Lab Sample ID: 890-1723-4

Date Collected: 12/15/21 13:00

Matrix: Solid

Date Received: 12/15/21 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	14948	12/17/21 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15017	12/17/21 19:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Client Sample ID: C-987 4.1

Lab Sample ID: 890-1723-4

Date Collected: 12/15/21 13:00

Matrix: Solid

Date Received: 12/15/21 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			15468	12/23/21 12:30	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15090	12/17/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15096	12/20/21 19:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15089	12/17/21 14:11	CA	XEN MID
Soluble	Analysis	300.0		1			15128	12/20/21 11:55	CH	XEN MID

Client Sample ID: C-989 4.1

Lab Sample ID: 890-1723-5

Date Collected: 12/15/21 13:45

Matrix: Solid

Date Received: 12/15/21 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	14948	12/17/21 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15017	12/17/21 20:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15468	12/23/21 12:30	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15090	12/17/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15096	12/20/21 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	15089	12/17/21 14:11	CA	XEN MID
Soluble	Analysis	300.0		5			15128	12/20/21 12:15	CH	XEN MID

Client Sample ID: C-990 4.1

Lab Sample ID: 890-1723-6

Date Collected: 12/15/21 13:46

Matrix: Solid

Date Received: 12/15/21 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	14948	12/17/21 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15017	12/17/21 20:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15468	12/23/21 12:30	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	15090	12/17/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15096	12/20/21 19:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	15089	12/17/21 14:11	CA	XEN MID
Soluble	Analysis	300.0		1			15128	12/20/21 12:22	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1723-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1723-1	C-984 4.1	Solid	12/15/21 08:30	12/15/21 15:09	4.1
890-1723-2	C-985 4.1	Solid	12/15/21 08:45	12/15/21 15:09	4.1
890-1723-3	C-986 4.1	Solid	12/15/21 09:30	12/15/21 15:09	4.1
890-1723-4	C-987 4.1	Solid	12/15/21 13:00	12/15/21 15:09	4.1
890-1723-5	C-989 4.1	Solid	12/15/21 13:45	12/15/21 15:09	4.1
890-1723-6	C-990 4.1	Solid	12/15/21 13:46	12/15/21 15:09	4.1

12/23/2021

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1723-1

SDG Number: 21-0105-02

Login Number: 1723

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1723-1

SDG Number: 21-0105-02

Login Number: 1723

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 12/17/21 01:55 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1730-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio Ast

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/23/2021 11:48:57 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Laboratory Job ID: 890-1730-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

Job ID: 890-1730-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1730-1****Receipt**

The sample was received on 12/16/2021 3:08 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 23.0°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-1049 4.1 (890-1730-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15243 and analytical batch 880-15246 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: C-1049 4.1 (890-1730-1), (CCV 880-15246/19), (CCV 880-15246/3), (CCV 880-15246/30), (LCSD 880-15243/3-A), (890-1735-A-1-D), (890-1735-A-1-E MS) and (890-1735-A-1-F MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-15243/2-A) and (MB 880-15243/1-A). Percent recoveries are based on the amount spiked.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

Client Sample ID: C-1049 4.1

Lab Sample ID: 890-1730-1

Date Collected: 12/16/21 13:30

Matrix: Solid

Date Received: 12/16/21 15:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198	mg/Kg		12/20/21 07:30	12/20/21 17:49	1
Toluene	<0.00198	U F1	0.00198	mg/Kg		12/20/21 07:30	12/20/21 17:49	1
Ethylbenzene	<0.00198	U F1	0.00198	mg/Kg		12/20/21 07:30	12/20/21 17:49	1
m-Xylene & p-Xylene	<0.00397	U F1	0.00397	mg/Kg		12/20/21 07:30	12/20/21 17:49	1
o-Xylene	<0.00198	U F1	0.00198	mg/Kg		12/20/21 07:30	12/20/21 17:49	1
Xylenes, Total	<0.00397	U F1	0.00397	mg/Kg		12/20/21 07:30	12/20/21 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	12/20/21 07:30	12/20/21 17:49	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/20/21 07:30	12/20/21 17:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/22/21 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/23/21 12:30	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/21/21 10:22	12/21/21 22:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/21/21 10:22	12/21/21 22:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/21/21 10:22	12/21/21 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	53	S1-	70 - 130	12/21/21 10:22	12/21/21 22:15	1
o-Terphenyl (Surr)	59	S1-	70 - 130	12/21/21 10:22	12/21/21 22:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		5.03	mg/Kg			12/20/21 18:01	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1730-1	C-1049 4.1	133 S1+	110
890-1730-1 MS	C-1049 4.1	105	97
890-1730-1 MSD	C-1049 4.1	110	98
LCS 880-15094/1-A	Lab Control Sample	124	128
LCSD 880-15094/2-A	Lab Control Sample Dup	123	110
MB 880-15094/5-A	Method Blank	112	110
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1730-1	C-1049 4.1	53 S1-	59 S1-
890-1735-A-1-E MS	Matrix Spike	50 S1-	49 S1-
890-1735-A-1-F MSD	Matrix Spike Duplicate	50 S1-	49 S1-
LCS 880-15243/2-A	Lab Control Sample	60 S1-	63 S1-
LCSD 880-15243/3-A	Lab Control Sample Dup	63 S1-	68 S1-
MB 880-15243/1-A	Method Blank	68 S1-	78
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15094/5-A

Matrix: Solid

Analysis Batch: 15146

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15094

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/21 07:30	12/20/21 17:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/21 07:30	12/20/21 17:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/21 07:30	12/20/21 17:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/20/21 07:30	12/20/21 17:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/21 07:30	12/20/21 17:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/20/21 07:30	12/20/21 17:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/20/21 07:30	12/20/21 17:28	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/20/21 07:30	12/20/21 17:28	1

Lab Sample ID: LCS 880-15094/1-A

Matrix: Solid

Analysis Batch: 15146

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08540		mg/Kg		85	70 - 130
Toluene	0.100	0.08735		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08718		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1837		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09205		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	128		70 - 130

Lab Sample ID: LCSD 880-15094/2-A

Matrix: Solid

Analysis Batch: 15146

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15094

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07023		mg/Kg		70	70 - 130	19	35
Toluene	0.100	0.07638		mg/Kg		76	70 - 130	13	35
Ethylbenzene	0.100	0.08233		mg/Kg		82	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1747		mg/Kg		87	70 - 130	5	35
o-Xylene	0.100	0.08879		mg/Kg		89	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-1730-1 MS

Matrix: Solid

Analysis Batch: 15146

Client Sample ID: C-1049 4.1

Prep Type: Total/NA

Prep Batch: 15094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.0992	0.05239	F1	mg/Kg		53	70 - 130
Toluene	<0.00198	U F1	0.0992	0.05641	F1	mg/Kg		57	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1730-1 MS

Matrix: Solid

Analysis Batch: 15146

Client Sample ID: C-1049 4.1

Prep Type: Total/NA

Prep Batch: 15094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U F1	0.0992	0.06300	F1	mg/Kg		64	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.198	0.1304	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00198	U F1	0.0992	0.06802	F1	mg/Kg		69	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1730-1 MSD

Matrix: Solid

Analysis Batch: 15146

Client Sample ID: C-1049 4.1

Prep Type: Total/NA

Prep Batch: 15094

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0996	0.05912	F1	mg/Kg		59	70 - 130	12	35
Toluene	<0.00198	U F1	0.0996	0.06670	F1	mg/Kg		67	70 - 130	17	35
Ethylbenzene	<0.00198	U F1	0.0996	0.07042		mg/Kg		71	70 - 130	11	35
m-Xylene & p-Xylene	<0.00397	U F1	0.199	0.1474		mg/Kg		74	70 - 130	12	35
o-Xylene	<0.00198	U F1	0.0996	0.07434		mg/Kg		75	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-15243/1-A

Matrix: Solid

Analysis Batch: 15246

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15243

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/21/21 10:22	12/21/21 14:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/21/21 10:22	12/21/21 14:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/21/21 10:22	12/21/21 14:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	68	S1-	70 - 130	12/21/21 10:22	12/21/21 14:35	1
o-Terphenyl (Surr)	78		70 - 130	12/21/21 10:22	12/21/21 14:35	1

Lab Sample ID: LCS 880-15243/2-A

Matrix: Solid

Analysis Batch: 15246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	939.5		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	786.7		mg/Kg		79	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-15243/2-A
Matrix: Solid
Analysis Batch: 15246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15243

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	60	S1-	70 - 130
o-Terphenyl (Surr)	63	S1-	70 - 130

Lab Sample ID: LCSD 880-15243/3-A
Matrix: Solid
Analysis Batch: 15246

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 15243

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	978.1		mg/Kg		98	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	794.7		mg/Kg		79	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	63	S1-	70 - 130
o-Terphenyl (Surr)	68	S1-	70 - 130

Lab Sample ID: 890-1735-A-1-E MS
Matrix: Solid
Analysis Batch: 15246

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 15243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1091		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	80.3	F1	996	736.2	F1	mg/Kg		66	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	50	S1-	70 - 130
o-Terphenyl (Surr)	49	S1-	70 - 130

Lab Sample ID: 890-1735-A-1-F MSD
Matrix: Solid
Analysis Batch: 15246

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 15243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1086		mg/Kg		109	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	80.3	F1	995	729.5	F1	mg/Kg		65	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	50	S1-	70 - 130
o-Terphenyl (Surr)	49	S1-	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15166/1-A

Matrix: Solid

Analysis Batch: 15191

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/20/21 13:50	1

Lab Sample ID: LCS 880-15166/2-A

Matrix: Solid

Analysis Batch: 15191

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-15166/3-A

Matrix: Solid

Analysis Batch: 15191

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	251.3		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-9492-A-9-E MS

Matrix: Solid

Analysis Batch: 15191

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	127		250	400.7		mg/Kg		110	90 - 110

Lab Sample ID: 880-9492-A-9-F MSD

Matrix: Solid

Analysis Batch: 15191

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	127		250	401.4		mg/Kg		110	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

GC VOA

Prep Batch: 15094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1730-1	C-1049 4.1	Total/NA	Solid	5035	
MB 880-15094/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15094/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15094/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1730-1 MS	C-1049 4.1	Total/NA	Solid	5035	
890-1730-1 MSD	C-1049 4.1	Total/NA	Solid	5035	

Analysis Batch: 15146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1730-1	C-1049 4.1	Total/NA	Solid	8021B	15094
MB 880-15094/5-A	Method Blank	Total/NA	Solid	8021B	15094
LCS 880-15094/1-A	Lab Control Sample	Total/NA	Solid	8021B	15094
LCSD 880-15094/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15094
890-1730-1 MS	C-1049 4.1	Total/NA	Solid	8021B	15094
890-1730-1 MSD	C-1049 4.1	Total/NA	Solid	8021B	15094

Analysis Batch: 15380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1730-1	C-1049 4.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1730-1	C-1049 4.1	Total/NA	Solid	8015NM Prep	
MB 880-15243/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15243/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15243/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1735-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1735-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1730-1	C-1049 4.1	Total/NA	Solid	8015B NM	15243
MB 880-15243/1-A	Method Blank	Total/NA	Solid	8015B NM	15243
LCS 880-15243/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15243
LCSD 880-15243/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15243
890-1735-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	15243
890-1735-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15243

Analysis Batch: 15468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1730-1	C-1049 4.1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1730-1	C-1049 4.1	Soluble	Solid	DI Leach	
MB 880-15166/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15166/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15166/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 15166 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9492-A-9-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9492-A-9-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 15191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1730-1	C-1049 4.1	Soluble	Solid	300.0	15166
MB 880-15166/1-A	Method Blank	Soluble	Solid	300.0	15166
LCS 880-15166/2-A	Lab Control Sample	Soluble	Solid	300.0	15166
LCSD 880-15166/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15166
880-9492-A-9-E MS	Matrix Spike	Soluble	Solid	300.0	15166
880-9492-A-9-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15166

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

Client Sample ID: C-1049 4.1

Lab Sample ID: 890-1730-1

Date Collected: 12/16/21 13:30

Matrix: Solid

Date Received: 12/16/21 15:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	15094	12/20/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15146	12/20/21 17:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15380	12/22/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15468	12/23/21 12:30	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15243	12/21/21 10:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15246	12/21/21 22:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	15166	12/20/21 12:30	CA	XEN MID
Soluble	Analysis	300.0		1			15191	12/20/21 18:01	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1730-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1730-1	C-1049 4.1	Solid	12/16/21 13:30	12/16/21 15:08

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Aarson &
ssociates, Inc.
Environmental Consultants

890-1730 Chain of Custody

Data Reported to

DATE: 12-16-21 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Palmiro Ast

LAI PROJECT #: 21-0105-02 COLLECTOR: TP

TRRP report?
☐ Yes ☒ No

TIME ZONE
Time zone/State
MST/NM

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

Field Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESSERVED

ANALYSES

BTEX-MTBE

TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐

GASOLINE MOD 8015 ☐

DIESEL - MOD 8015 ☐

OIL - MOD 8015 ☐

VOC 8260 ☐

SVOC 8270 ☐

8081 PESTICIDES ☐

8082 PCBS ☐

TCLP - METALS (RCRA) ☐

TCLP - PEST ☐

TOTAL METALS (RCRA) ☐

LEAD - TOTAL ☐

RCl ☐

TDS ☐

pH ☐

% MOISTURE ☐

EXPLOSIVES ☐

CHLORIDE ☐

CYANIDE ☐

PECHLORATE ☐

ALKALINITY ☐

FIELD NOTES

TOTAL

1

RELINQUISHED BY (Signature)

[Signature]

(DATE/TIME)

12.16.21 1508

RECEIVED BY (Signature)

[Signature]

DATE/TIME

RECEIVED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

NORMAL ☒

1 DAY ☐

2 DAY ☐

OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP 23.0

TERM# -0.2

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED

CARRIER BILL # CID-Cooling In Process

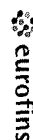
HAND DELIVERED ☒

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220

Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record

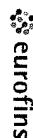


Environment Testing America

[illegible]

Eurofins Xenco, Carlsbad

Chain of Custody Record



Environment Testing America

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1730-1

SDG Number: 21-0105-02

Login Number: 1730

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1730-1

SDG Number: 21-0105-02

Login Number: 1730

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 12/20/21 08:22 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-9567-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/29/2021 8:47:23 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-9567-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

Job ID: 880-9567-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-9567-1

Receipt

The sample was received on 12/21/2021 8:22 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-15385 and analytical batch 880-15413 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

Client Sample ID: C-61 4.1'

Lab Sample ID: 880-9567-1

Date Collected: 12/20/21 11:40

Matrix: Solid

Date Received: 12/21/21 08:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/21/21 14:00	12/21/21 18:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/21/21 14:00	12/21/21 18:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/21/21 14:00	12/21/21 18:55	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/21/21 14:00	12/21/21 18:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/21/21 14:00	12/21/21 18:55	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/21/21 14:00	12/21/21 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/21/21 14:00	12/21/21 18:55	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/21/21 14:00	12/21/21 18:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/29/21 09:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/29/21 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		12/22/21 14:29	12/24/21 04:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/22/21 14:29	12/24/21 04:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/22/21 14:29	12/24/21 04:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	12/22/21 14:29	12/24/21 04:38	1
o-Terphenyl (Surr)	111		70 - 130	12/22/21 14:29	12/24/21 04:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.7		5.00	mg/Kg			12/22/21 07:40	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9567-1	C-61 4.1'	120	106
890-1735-A-1-A MS	Matrix Spike	104	103
890-1735-A-1-B MSD	Matrix Spike Duplicate	104	103
LCS 880-15226/1-A	Lab Control Sample	105	107
LCSD 880-15226/2-A	Lab Control Sample Dup	101	106
MB 880-15225/5-A	Method Blank	115	104
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-9567-1	C-61 4.1'	99	111
890-1740-A-1-D MS	Matrix Spike	96	97
890-1740-A-1-E MSD	Matrix Spike Duplicate	94	96
LCS 880-15385/2-A	Lab Control Sample	116	125
LCSD 880-15385/3-A	Lab Control Sample Dup	98	109
MB 880-15385/1-A	Method Blank	152 S1+	177 S1+
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15225/5-A

Matrix: Solid

Analysis Batch: 15228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15225

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/21/21 07:13	12/21/21 10:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/21/21 07:13	12/21/21 10:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/21/21 07:13	12/21/21 10:28	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/21/21 07:13	12/21/21 10:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/21/21 07:13	12/21/21 10:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/21/21 07:13	12/21/21 10:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/21/21 07:13	12/21/21 10:28	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/21/21 07:13	12/21/21 10:28	1

Lab Sample ID: LCS 880-15226/1-A

Matrix: Solid

Analysis Batch: 15228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09163		mg/Kg		92	70 - 130
Toluene	0.100	0.08389		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08356		mg/Kg		84	70 - 130
m,p-Xylenes	0.200	0.1730		mg/Kg		87	70 - 130
o-Xylene	0.100	0.08483		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-15226/2-A

Matrix: Solid

Analysis Batch: 15228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15226

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1003		mg/Kg		100	70 - 130	9	35
Toluene	0.100	0.08843		mg/Kg		88	70 - 130	5	35
Ethylbenzene	0.100	0.08907		mg/Kg		89	70 - 130	6	35
m,p-Xylenes	0.200	0.1839		mg/Kg		92	70 - 130	6	35
o-Xylene	0.100	0.08987		mg/Kg		90	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-1735-A-1-A MS

Matrix: Solid

Analysis Batch: 15228

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.101	0.1059		mg/Kg		105	70 - 130
Toluene	<0.00199	U	0.101	0.09720		mg/Kg		96	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1735-A-1-A MS

Matrix: Solid

Analysis Batch: 15228

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U	0.101	0.09341		mg/Kg		92	70 - 130
m,p-Xylenes	<0.00398	U	0.202	0.1925		mg/Kg		95	70 - 130
o-Xylene	<0.00199	U	0.101	0.09339		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1735-A-1-B MSD

Matrix: Solid

Analysis Batch: 15228

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.1034		mg/Kg		104	70 - 130	2	35
Toluene	<0.00199	U	0.0996	0.09501		mg/Kg		95	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.0996	0.09195		mg/Kg		92	70 - 130	2	35
m,p-Xylenes	<0.00398	U	0.199	0.1904		mg/Kg		96	70 - 130	1	35
o-Xylene	<0.00199	U	0.0996	0.09237		mg/Kg		93	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-15385/1-A

Matrix: Solid

Analysis Batch: 15413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15385

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/22/21 14:29	12/23/21 20:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/22/21 14:29	12/23/21 20:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/22/21 14:29	12/23/21 20:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	152	S1+	70 - 130	12/22/21 14:29	12/23/21 20:18	1
o-Terphenyl (Surr)	177	S1+	70 - 130	12/22/21 14:29	12/23/21 20:18	1

Lab Sample ID: LCS 880-15385/2-A

Matrix: Solid

Analysis Batch: 15413

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15385

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	869.0		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	826.1		mg/Kg		83	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-15385/2-A
Matrix: Solid
Analysis Batch: 15413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15385

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	116		70 - 130
o-Terphenyl (Surr)	125		70 - 130

Lab Sample ID: LCSD 880-15385/3-A
Matrix: Solid
Analysis Batch: 15413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 15385

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1239	*1	mg/Kg		124	70 - 130	35	20
Diesel Range Organics (Over C10-C28)	1000	776.5		mg/Kg		78	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: 890-1740-A-1-D MS
Matrix: Solid
Analysis Batch: 15413

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 15385

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	996	1249		mg/Kg		121	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	794.6		mg/Kg		75	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	96		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: 890-1740-A-1-E MSD
Matrix: Solid
Analysis Batch: 15413

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 15385

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	995	1226		mg/Kg		118	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	995	777.4		mg/Kg		74	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	94		70 - 130
o-Terphenyl (Surr)	96		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15219/1-A

Matrix: Solid

Analysis Batch: 15393

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/22/21 01:16	1

Lab Sample ID: LCS 880-15219/2-A

Matrix: Solid

Analysis Batch: 15393

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	255.7		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-15219/3-A

Matrix: Solid

Analysis Batch: 15393

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	254.6		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-9566-A-2-H MS

Matrix: Solid

Analysis Batch: 15393

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	150		252	398.2		mg/Kg		98	90 - 110

Lab Sample ID: 880-9566-A-2-I MSD

Matrix: Solid

Analysis Batch: 15393

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	150		252	397.5		mg/Kg		98	90 - 110	0	20

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

GC VOA

Prep Batch: 15225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-15225/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 15226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9567-1	C-61 4.1'	Total/NA	Solid	5035	
LCS 880-15226/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15226/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1735-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-1735-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9567-1	C-61 4.1'	Total/NA	Solid	8021B	15226
MB 880-15225/5-A	Method Blank	Total/NA	Solid	8021B	15225
LCS 880-15226/1-A	Lab Control Sample	Total/NA	Solid	8021B	15226
LCSD 880-15226/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15226
890-1735-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	15226
890-1735-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15226

Analysis Batch: 15716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9567-1	C-61 4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9567-1	C-61 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-15385/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15385/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15385/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1740-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1740-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9567-1	C-61 4.1'	Total/NA	Solid	8015B NM	15385
MB 880-15385/1-A	Method Blank	Total/NA	Solid	8015B NM	15385
LCS 880-15385/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15385
LCSD 880-15385/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15385
890-1740-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	15385
890-1740-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15385

Analysis Batch: 15715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9567-1	C-61 4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9567-1	C-61 4.1'	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 15219 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-15219/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15219/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15219/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9566-A-2-H MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9566-A-2-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 15393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9567-1	C-61 4.1'	Soluble	Solid	300.0	15219
MB 880-15219/1-A	Method Blank	Soluble	Solid	300.0	15219
LCS 880-15219/2-A	Lab Control Sample	Soluble	Solid	300.0	15219
LCSD 880-15219/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15219
880-9566-A-2-H MS	Matrix Spike	Soluble	Solid	300.0	15219
880-9566-A-2-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15219

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

Client Sample ID: C-61 4.1'

Lab Sample ID: 880-9567-1

Date Collected: 12/20/21 11:40

Matrix: Solid

Date Received: 12/21/21 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	15226	12/21/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15228	12/21/21 18:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15716	12/29/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15715	12/29/21 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15385	12/22/21 14:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15413	12/24/21 04:38	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15219	12/21/21 09:00	CA	XEN MID
Soluble	Analysis	300.0		1			15393	12/22/21 07:40	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9567-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-9567-1	C-61 4.1'	Solid	12/20/21 11:40	12/21/21 08:22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Varson & Associates, Inc.
Environmental Consultants

507 N Warrenfield Ste 202
Midland TX 79701
432-687-0901

Date Reported to

DATE 12/30/2021 PAGE 1 OF 2
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME Palmer HST
LAI PROJECT # 21-0105-02 COLLECTOR DSG

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State
MST/NA

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTX ☐ MTBE ☐

TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐

GASOLINE MOD 8015 ☐

DIESEL MOD 8015 ☐

OIL MOD 8015 ☐

VOC 8260 ☐

SVOC 8270 ☐

8081 PESTICIDES ☐

8082 PCBs ☐

TCLP METALS (RCRA) ☐

TCLP PEST ☐

TOTAL METALS (RCRA) ☐

LEAD - TOTAL ☐

RO ☐

TDS ☐

pH ☐

EXPLOSIVES ☐

CHLORIDE ☐

ANIONS ☐

ALKALINITY ☐

FIELD NOTES

202

880-9567 Chain of Custody

TOTAL

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

LABORATORY

VARCO

TURN AROUND TIME

NORMAL ☒

1 DAY ☐

2 DAY ☐

OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP 41.5 THERM# 1128

CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED

☐ CARRIER BILL #

☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-9567-1

SDG Number: 21-0105-02

Login Number: 9567

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1748-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio Ast

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
12/29/2021 1:57:37 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Laboratory Job ID: 890-1748-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Job ID: 890-1748-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1748-1****Receipt**

The samples were received on 12/21/2021 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 23.8°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-1252 1-4' (890-1748-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15437 and analytical batch 880-15427 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-15549 and analytical batch 880-15541 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-15618 and analytical batch 880-15626 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Client Sample ID: C-1252 1-4'

Lab Sample ID: 890-1748-1

Date Collected: 12/21/21 08:32

Matrix: Solid

Date Received: 12/21/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199	mg/Kg		12/23/21 12:08	12/23/21 20:50	1
Toluene	<0.00199	U *1 *+	0.00199	mg/Kg		12/23/21 12:08	12/23/21 20:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/23/21 12:08	12/23/21 20:50	1
m-Xylene & p-Xylene	<0.00398	U *1 *-	0.00398	mg/Kg		12/23/21 12:08	12/23/21 20:50	1
o-Xylene	<0.00199	U *1 *+	0.00199	mg/Kg		12/23/21 12:08	12/23/21 20:50	1
Xylenes, Total	<0.00398	U *1 *+	0.00398	mg/Kg		12/23/21 12:08	12/23/21 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	12/23/21 12:08	12/23/21 20:50	1
1,4-Difluorobenzene (Surr)	120		70 - 130	12/23/21 12:08	12/23/21 20:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/29/21 14:50	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/29/21 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/28/21 08:39	12/28/21 11:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		12/28/21 08:39	12/28/21 11:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/28/21 08:39	12/28/21 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130	12/28/21 08:39	12/28/21 11:45	1
o-Terphenyl (Surr)	114		70 - 130	12/28/21 08:39	12/28/21 11:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290		5.02	mg/Kg			12/27/21 14:08	1

Client Sample ID: C-1253 1-4'

Lab Sample ID: 890-1748-2

Date Collected: 12/21/21 08:33

Matrix: Solid

Date Received: 12/21/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199	mg/Kg		12/23/21 12:08	12/23/21 21:10	1
Toluene	<0.00199	U *1 *+	0.00199	mg/Kg		12/23/21 12:08	12/23/21 21:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/23/21 12:08	12/23/21 21:10	1
m-Xylene & p-Xylene	<0.00398	U *1 *-	0.00398	mg/Kg		12/23/21 12:08	12/23/21 21:10	1
o-Xylene	<0.00199	U *1 *+	0.00199	mg/Kg		12/23/21 12:08	12/23/21 21:10	1
Xylenes, Total	<0.00398	U *1 *+	0.00398	mg/Kg		12/23/21 12:08	12/23/21 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/23/21 12:08	12/23/21 21:10	1
1,4-Difluorobenzene (Surr)	88		70 - 130	12/23/21 12:08	12/23/21 21:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Client Sample ID: C-1253 1-4'

Lab Sample ID: 890-1748-2

Date Collected: 12/21/21 08:33

Matrix: Solid

Date Received: 12/21/21 15:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/29/21 14:50	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/29/21 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/28/21 08:39	12/28/21 12:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0	mg/Kg		12/28/21 08:39	12/28/21 12:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/28/21 08:39	12/28/21 12:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			12/28/21 08:39	12/28/21 12:48	1
o-Terphenyl (Surr)	109		70 - 130			12/28/21 08:39	12/28/21 12:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		5.02	mg/Kg			12/27/21 14:25	1

Client Sample ID: C-1254 1-4'

Lab Sample ID: 890-1748-3

Date Collected: 12/21/21 10:40

Matrix: Solid

Date Received: 12/21/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		12/23/21 12:08	12/23/21 21:31	1
Toluene	<0.00200	U *1 **	0.00200	mg/Kg		12/23/21 12:08	12/23/21 21:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/23/21 12:08	12/23/21 21:31	1
m-Xylene & p-Xylene	<0.00399	U *1 *	0.00399	mg/Kg		12/23/21 12:08	12/23/21 21:31	1
o-Xylene	<0.00200	U *1 **	0.00200	mg/Kg		12/23/21 12:08	12/23/21 21:31	1
Xylenes, Total	<0.00399	U *1 **	0.00399	mg/Kg		12/23/21 12:08	12/23/21 21:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			12/23/21 12:08	12/23/21 21:31	1
1,4-Difluorobenzene (Surr)	77		70 - 130			12/23/21 12:08	12/23/21 21:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/29/21 14:50	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/29/21 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0	mg/Kg		12/27/21 08:39	12/27/21 20:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0	mg/Kg		12/27/21 08:39	12/27/21 20:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Client Sample ID: C-1254 1-4'

Lab Sample ID: 890-1748-3

Date Collected: 12/21/21 10:40

Matrix: Solid

Date Received: 12/21/21 15:35

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/21 08:39	12/27/21 20:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			12/27/21 08:39	12/27/21 20:13	1
o-Terphenyl (Surr)	84		70 - 130			12/27/21 08:39	12/27/21 20:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	303		5.04	mg/Kg			12/27/21 14:43	1

Client Sample ID: C-993 4.1

Lab Sample ID: 890-1748-4

Date Collected: 12/21/21 13:12

Matrix: Solid

Date Received: 12/21/21 15:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		12/23/21 12:08	12/23/21 21:51	1
Toluene	<0.00200	U *1 *+	0.00200	mg/Kg		12/23/21 12:08	12/23/21 21:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/23/21 12:08	12/23/21 21:51	1
m-Xylene & p-Xylene	<0.00399	U *1 *	0.00399	mg/Kg		12/23/21 12:08	12/23/21 21:51	1
o-Xylene	<0.00200	U *1 *+	0.00200	mg/Kg		12/23/21 12:08	12/23/21 21:51	1
Xylenes, Total	<0.00399	U *1 *+	0.00399	mg/Kg		12/23/21 12:08	12/23/21 21:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			12/23/21 12:08	12/23/21 21:51	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/23/21 12:08	12/23/21 21:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/29/21 14:50	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/29/21 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		12/27/21 08:39	12/27/21 20:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9	mg/Kg		12/27/21 08:39	12/27/21 20:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/21 08:39	12/27/21 20:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130			12/27/21 08:39	12/27/21 20:34	1
o-Terphenyl (Surr)	111		70 - 130			12/27/21 08:39	12/27/21 20:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	555		4.99	mg/Kg			12/27/21 15:00	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1744-A-4-D MS	Matrix Spike	117	97
890-1744-A-4-E MSD	Matrix Spike Duplicate	141 S1+	104
890-1748-1	C-1252 1-4'	146 S1+	120
890-1748-2	C-1253 1-4'	120	88
890-1748-3	C-1254 1-4'	112	77
890-1748-4	C-993 4.1	113	95
LCS 880-15437/1-A	Lab Control Sample	626 S1+	53 S1-
LCSD 880-15437/2-A	Lab Control Sample Dup	113	102
MB 880-15437/5-A	Method Blank	122	100
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-9681-A-1-D MS	Matrix Spike	95	76
880-9681-A-1-E MSD	Matrix Spike Duplicate	99	73
890-1748-1	C-1252 1-4'	116	114
890-1748-1 MS	C-1252 1-4'	99	99
890-1748-1 MSD	C-1252 1-4'	109	104
890-1748-2	C-1253 1-4'	110	109
890-1748-3	C-1254 1-4'	99	84
890-1748-4	C-993 4.1	122	111
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-15549/2-A	Lab Control Sample	112	87
LCS 880-15618/2-A	Lab Control Sample	119	108
LCSD 880-15549/3-A	Lab Control Sample Dup	113	100
LCSD 880-15618/3-A	Lab Control Sample Dup	106	102
MB 880-15549/1-A	Method Blank	98	89
MB 880-15618/1-A	Method Blank	96	99
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15437/5-A

Matrix: Solid

Analysis Batch: 15427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15437

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/23/21 12:08	12/23/21 20:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/23/21 12:08	12/23/21 20:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/23/21 12:08	12/23/21 20:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/23/21 12:08	12/23/21 20:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/23/21 12:08	12/23/21 20:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/23/21 12:08	12/23/21 20:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	12/23/21 12:08	12/23/21 20:00	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/23/21 12:08	12/23/21 20:00	1

Lab Sample ID: LCS 880-15437/1-A

Matrix: Solid

Analysis Batch: 15427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.06355	*-	mg/Kg		64	70 - 130
Toluene	0.100	0.2411	*+	mg/Kg		241	70 - 130
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.1060	*-	mg/Kg		53	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	626	S1+	70 - 130
1,4-Difluorobenzene (Surr)	53	S1-	70 - 130

Lab Sample ID: LCSD 880-15437/2-A

Matrix: Solid

Analysis Batch: 15427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15437

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08456		mg/Kg		85	70 - 130	28	35
Toluene	0.100	0.09326	*1	mg/Kg		93	70 - 130	88	35
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1964	*1	mg/Kg		98	70 - 130	60	35
o-Xylene	0.100	0.09728	*1	mg/Kg		97	70 - 130	123	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-1744-A-4-D MS

Matrix: Solid

Analysis Batch: 15427

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15437

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U *-	0.0998	0.07463		mg/Kg		75	70 - 130
Toluene	<0.00200	U *1 *+ F1	0.0998	0.06904	F1	mg/Kg		69	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.05768	F1	mg/Kg		58	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1744-A-4-D MS

Matrix: Solid

Analysis Batch: 15427

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15437

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	<0.00401	U *1 *- F1	0.200	0.1137	F1	mg/Kg		57	70 - 130
o-Xylene	<0.00200	U *1 *+ F1	0.0998	0.06154	F1	mg/Kg		62	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1744-A-4-E MSD

Matrix: Solid

Analysis Batch: 15427

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15437

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U *-	0.0994	0.08482		mg/Kg		85	70 - 130	13	35
Toluene	<0.00200	U *1 *+ F1	0.0994	0.08707		mg/Kg		87	70 - 130	23	35
Ethylbenzene	<0.00200	U F1	0.0994	0.08127		mg/Kg		82	70 - 130	34	35
m-Xylene & p-Xylene	<0.00401	U *1 *- F1	0.199	0.1553		mg/Kg		78	70 - 130	31	35
o-Xylene	<0.00200	U *1 *+ F1	0.0994	0.07869		mg/Kg		79	70 - 130	24	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-15549/1-A

Matrix: Solid

Analysis Batch: 15541

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15549

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/21 08:39	12/27/21 11:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/21 08:39	12/27/21 11:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/21 08:39	12/27/21 11:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	12/27/21 08:39	12/27/21 11:53	1
o-Terphenyl (Surr)	89		70 - 130	12/27/21 08:39	12/27/21 11:53	1

Lab Sample ID: LCS 880-15549/2-A

Matrix: Solid

Analysis Batch: 15541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	2153	*+	mg/Kg		215	70 - 130
Diesel Range Organics (Over C10-C28)	1000	2161	*+	mg/Kg		216	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-15549/2-A

Matrix: Solid

Analysis Batch: 15541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15549

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	112		70 - 130
o-Terphenyl (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-15549/3-A

Matrix: Solid

Analysis Batch: 15541

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15549

	Spike	LCSD	LCSD						%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Gasoline Range Organics (GRO)-C6-C10	1000	2067	*+	mg/Kg		207	70 - 130	4	20		
Diesel Range Organics (Over C10-C28)	1000	2182	*+	mg/Kg		218	70 - 130	1	20		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	100		70 - 130

Lab Sample ID: 880-9681-A-1-D MS

Matrix: Solid

Analysis Batch: 15541

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15549

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	996	1018		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	555	*+	996	1445		mg/Kg		89	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	76		70 - 130

Lab Sample ID: 880-9681-A-1-E MSD

Matrix: Solid

Analysis Batch: 15541

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15549

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	995	1023		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	555	*+	995	1394		mg/Kg		84	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	73		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-15618/1-A

Matrix: Solid

Analysis Batch: 15626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15618

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/28/21 08:39	12/28/21 10:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/28/21 08:39	12/28/21 10:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/28/21 08:39	12/28/21 10:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			12/28/21 08:39	12/28/21 10:43	1
o-Terphenyl (Surr)	99		70 - 130			12/28/21 08:39	12/28/21 10:43	1

Lab Sample ID: LCS 880-15618/2-A

Matrix: Solid

Analysis Batch: 15626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1239		mg/Kg		124	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1331	*+	mg/Kg		133	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	119		70 - 130				
o-Terphenyl (Surr)	108		70 - 130				

Lab Sample ID: LCSD 880-15618/3-A

Matrix: Solid

Analysis Batch: 15626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15618

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1149		mg/Kg		115	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1164		mg/Kg		116	70 - 130	13	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	106		70 - 130						
o-Terphenyl (Surr)	102		70 - 130						

Lab Sample ID: 890-1748-1 MS

Matrix: Solid

Analysis Batch: 15626

Client Sample ID: C-1252 1-4'

Prep Type: Total/NA

Prep Batch: 15618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1990	1746		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *	1990	1693		mg/Kg		83	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1748-1 MS

Matrix: Solid

Analysis Batch: 15626

Client Sample ID: C-1252 1-4'

Prep Type: Total/NA

Prep Batch: 15618

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: 890-1748-1 MSD

Matrix: Solid

Analysis Batch: 15626

Client Sample ID: C-1252 1-4'

Prep Type: Total/NA

Prep Batch: 15618

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	2000	1906		mg/Kg		94	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.9	U **	2000	1776		mg/Kg		87	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	104		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15510/1-A

Matrix: Solid

Analysis Batch: 15560

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/27/21 07:11	1

Lab Sample ID: LCS 880-15510/2-A

Matrix: Solid

Analysis Batch: 15560

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	233.4		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-15510/3-A

Matrix: Solid

Analysis Batch: 15560

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	232.9		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 880-9692-A-5-B MS

Matrix: Solid

Analysis Batch: 15560

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	118		249	350.2		mg/Kg		93	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-9692-A-5-C MSD
Matrix: Solid
Analysis Batch: 15560

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	118		249	352.5		mg/Kg		94	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

GC VOA

Analysis Batch: 15427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1748-1	C-1252 1-4'	Total/NA	Solid	8021B	15437
890-1748-2	C-1253 1-4'	Total/NA	Solid	8021B	15437
890-1748-3	C-1254 1-4'	Total/NA	Solid	8021B	15437
890-1748-4	C-993 4.1	Total/NA	Solid	8021B	15437
MB 880-15437/5-A	Method Blank	Total/NA	Solid	8021B	15437
LCS 880-15437/1-A	Lab Control Sample	Total/NA	Solid	8021B	15437
LCSD 880-15437/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15437
890-1744-A-4-D MS	Matrix Spike	Total/NA	Solid	8021B	15437
890-1744-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15437

Prep Batch: 15437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1748-1	C-1252 1-4'	Total/NA	Solid	5035	
890-1748-2	C-1253 1-4'	Total/NA	Solid	5035	
890-1748-3	C-1254 1-4'	Total/NA	Solid	5035	
890-1748-4	C-993 4.1	Total/NA	Solid	5035	
MB 880-15437/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15437/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15437/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1744-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
890-1744-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1748-1	C-1252 1-4'	Total/NA	Solid	Total BTEX	
890-1748-2	C-1253 1-4'	Total/NA	Solid	Total BTEX	
890-1748-3	C-1254 1-4'	Total/NA	Solid	Total BTEX	
890-1748-4	C-993 4.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 15541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1748-3	C-1254 1-4'	Total/NA	Solid	8015B NM	15549
890-1748-4	C-993 4.1	Total/NA	Solid	8015B NM	15549
MB 880-15549/1-A	Method Blank	Total/NA	Solid	8015B NM	15549
LCS 880-15549/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15549
LCSD 880-15549/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15549
880-9681-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	15549
880-9681-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15549

Prep Batch: 15549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1748-3	C-1254 1-4'	Total/NA	Solid	8015NM Prep	
890-1748-4	C-993 4.1	Total/NA	Solid	8015NM Prep	
MB 880-15549/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15549/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15549/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9681-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9681-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 15618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1748-1	C-1252 1-4'	Total/NA	Solid	8015NM Prep	
890-1748-2	C-1253 1-4'	Total/NA	Solid	8015NM Prep	
MB 880-15618/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15618/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15618/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1748-1 MS	C-1252 1-4'	Total/NA	Solid	8015NM Prep	
890-1748-1 MSD	C-1252 1-4'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1748-1	C-1252 1-4'	Total/NA	Solid	8015B NM	15618
890-1748-2	C-1253 1-4'	Total/NA	Solid	8015B NM	15618
MB 880-15618/1-A	Method Blank	Total/NA	Solid	8015B NM	15618
LCS 880-15618/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15618
LCSD 880-15618/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15618
890-1748-1 MS	C-1252 1-4'	Total/NA	Solid	8015B NM	15618
890-1748-1 MSD	C-1252 1-4'	Total/NA	Solid	8015B NM	15618

Analysis Batch: 15715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1748-1	C-1252 1-4'	Total/NA	Solid	8015 NM	
890-1748-2	C-1253 1-4'	Total/NA	Solid	8015 NM	
890-1748-3	C-1254 1-4'	Total/NA	Solid	8015 NM	
890-1748-4	C-993 4.1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1748-1	C-1252 1-4'	Soluble	Solid	DI Leach	
890-1748-2	C-1253 1-4'	Soluble	Solid	DI Leach	
890-1748-3	C-1254 1-4'	Soluble	Solid	DI Leach	
890-1748-4	C-993 4.1	Soluble	Solid	DI Leach	
MB 880-15510/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15510/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15510/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9692-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9692-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 15560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1748-1	C-1252 1-4'	Soluble	Solid	300.0	15510
890-1748-2	C-1253 1-4'	Soluble	Solid	300.0	15510
890-1748-3	C-1254 1-4'	Soluble	Solid	300.0	15510
890-1748-4	C-993 4.1	Soluble	Solid	300.0	15510
MB 880-15510/1-A	Method Blank	Soluble	Solid	300.0	15510
LCS 880-15510/2-A	Lab Control Sample	Soluble	Solid	300.0	15510
LCSD 880-15510/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15510
880-9692-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	15510
880-9692-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15510

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Client Sample ID: C-1252 1-4'

Lab Sample ID: 890-1748-1

Date Collected: 12/21/21 08:32

Matrix: Solid

Date Received: 12/21/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	15437	12/23/21 12:08	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15427	12/23/21 20:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15638	12/29/21 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15715	12/29/21 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15618	12/28/21 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15626	12/28/21 11:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	15510	12/24/21 17:45	SC	XEN MID
Soluble	Analysis	300.0		1			15560	12/27/21 14:08	SC	XEN MID

Client Sample ID: C-1253 1-4'

Lab Sample ID: 890-1748-2

Date Collected: 12/21/21 08:33

Matrix: Solid

Date Received: 12/21/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	15437	12/23/21 12:08	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15427	12/23/21 21:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15638	12/29/21 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15715	12/29/21 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	15618	12/28/21 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15626	12/28/21 12:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	15510	12/24/21 17:45	SC	XEN MID
Soluble	Analysis	300.0		1			15560	12/27/21 14:25	SC	XEN MID

Client Sample ID: C-1254 1-4'

Lab Sample ID: 890-1748-3

Date Collected: 12/21/21 10:40

Matrix: Solid

Date Received: 12/21/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	15437	12/23/21 12:08	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15427	12/23/21 21:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15638	12/29/21 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15715	12/29/21 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	15549	12/27/21 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15541	12/27/21 20:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	15510	12/24/21 17:45	SC	XEN MID
Soluble	Analysis	300.0		1			15560	12/27/21 14:43	SC	XEN MID

Client Sample ID: C-993 4.1

Lab Sample ID: 890-1748-4

Date Collected: 12/21/21 13:12

Matrix: Solid

Date Received: 12/21/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	15437	12/23/21 12:08	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15427	12/23/21 21:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15638	12/29/21 14:50	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Client Sample ID: C-993 4.1
Date Collected: 12/21/21 13:12
Date Received: 12/21/21 15:35

Lab Sample ID: 890-1748-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			15715	12/29/21 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15549	12/27/21 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15541	12/27/21 20:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15510	12/24/21 17:45	SC	XEN MID
Soluble	Analysis	300.0		1			15560	12/27/21 15:00	SC	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1748-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1748-1	C-1252 1-4'	Solid	12/21/21 08:32	12/21/21 15:35
890-1748-2	C-1253 1-4'	Solid	12/21/21 08:33	12/21/21 15:35
890-1748-3	C-1254 1-4'	Solid	12/21/21 10:40	12/21/21 15:35
890-1748-4	C-993 4.1	Solid	12/21/21 13:12	12/21/21 15:35

[illegible]

No. 2327
CHAIN-OF-CUSTODY

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1748-1

SDG Number: 21-0105-02

Login Number: 1748

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1748-1

SDG Number: 21-0105-02

Login Number: 1748

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Xenco, Midland

List Creation: 12/23/21 12:33 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1749-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio Ast

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/4/2022 2:22:43 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Laboratory Job ID: 890-1749-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

Job ID: 890-1749-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

**Job Narrative
890-1749-1**

Receipt

The sample was received on 12/22/2021 2:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 25.4°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-15730 and analytical batch 880-15823 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

Client Sample ID: C-1246-2 1-4'

Lab Sample ID: 890-1749-1

Date Collected: 12/22/21 10:20

Matrix: Solid

Date Received: 12/22/21 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/27/21 09:28	12/28/21 09:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/27/21 09:28	12/28/21 09:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/27/21 09:28	12/28/21 09:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/27/21 09:28	12/28/21 09:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/27/21 09:28	12/28/21 09:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/27/21 09:28	12/28/21 09:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/27/21 09:28	12/28/21 09:13	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/27/21 09:28	12/28/21 09:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/30/21 10:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/03/22 14:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/29/21 13:57	12/31/21 12:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9	mg/Kg		12/29/21 13:57	12/31/21 12:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/29/21 13:57	12/31/21 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	12/29/21 13:57	12/31/21 12:25	1
o-Terphenyl (Surr)	101		70 - 130	12/29/21 13:57	12/31/21 12:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	212		5.02	mg/Kg			12/31/21 12:54	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9679-A-6-D MS	Matrix Spike	119	104
880-9679-A-6-E MSD	Matrix Spike Duplicate	113	75
890-1749-1	C-1246-2 1-4'	114	104
LCS 880-15551/1-A	Lab Control Sample	109	88
LCSD 880-15551/2-A	Lab Control Sample Dup	112	96
MB 880-15551/5-A	Method Blank	127	110
MB 880-15572/5-A	Method Blank	110	104
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1749-1	C-1246-2 1-4'	102	101
890-1749-1 MS	C-1246-2 1-4'	84	72
890-1749-1 MSD	C-1246-2 1-4'	83	71
LCS 880-15730/2-A	Lab Control Sample	108	86
LCSD 880-15730/3-A	Lab Control Sample Dup	114	91
MB 880-15730/1-A	Method Blank	116	122
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15551/5-A

Matrix: Solid

Analysis Batch: 15548

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15551

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/27/21 09:28	12/28/21 01:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/27/21 09:28	12/28/21 01:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/27/21 09:28	12/28/21 01:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/27/21 09:28	12/28/21 01:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/27/21 09:28	12/28/21 01:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/27/21 09:28	12/28/21 01:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/27/21 09:28	12/28/21 01:22	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/27/21 09:28	12/28/21 01:22	1

Lab Sample ID: LCS 880-15551/1-A

Matrix: Solid

Analysis Batch: 15548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07849		mg/Kg		78	70 - 130
Toluene	0.100	0.07450		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07866		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1627		mg/Kg		81	70 - 130
o-Xylene	0.100	0.08605		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: LCSD 880-15551/2-A

Matrix: Solid

Analysis Batch: 15548

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15551

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07561		mg/Kg		76	70 - 130	4	35
Toluene	0.100	0.07953		mg/Kg		80	70 - 130	7	35
Ethylbenzene	0.100	0.08024		mg/Kg		80	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1680		mg/Kg		84	70 - 130	3	35
o-Xylene	0.100	0.08643		mg/Kg		86	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-9679-A-6-D MS

Matrix: Solid

Analysis Batch: 15548

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15551

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0998	0.07682		mg/Kg		77	70 - 130
Toluene	<0.00199	U	0.0998	0.07737		mg/Kg		78	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-9679-A-6-D MS

Matrix: Solid

Analysis Batch: 15548

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15551

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U	0.0998	0.07923		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1656		mg/Kg		83	70 - 130
o-Xylene	<0.00199	U	0.0998	0.08186		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-9679-A-6-E MSD

Matrix: Solid

Analysis Batch: 15548

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15551

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.07223		mg/Kg		72	70 - 130	6	35
Toluene	<0.00199	U	0.101	0.07597		mg/Kg		75	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.101	0.07735		mg/Kg		77	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1614		mg/Kg		80	70 - 130	3	35
o-Xylene	<0.00199	U	0.101	0.08153		mg/Kg		81	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	75		70 - 130

Lab Sample ID: MB 880-15572/5-A

Matrix: Solid

Analysis Batch: 15548

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15572

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/27/21 11:42	12/27/21 14:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/27/21 11:42	12/27/21 14:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/27/21 11:42	12/27/21 14:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/27/21 11:42	12/27/21 14:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/27/21 11:42	12/27/21 14:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/27/21 11:42	12/27/21 14:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	12/27/21 11:42	12/27/21 14:08	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/27/21 11:42	12/27/21 14:08	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-15730/1-A

Matrix: Solid

Analysis Batch: 15823

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15730

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/29/21 13:57	12/31/21 11:25	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-15730/1-A

Matrix: Solid

Analysis Batch: 15823

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15730

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/29/21 13:57	12/31/21 11:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/21 13:57	12/31/21 11:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			12/29/21 13:57	12/31/21 11:25	1
o-Terphenyl (Surr)	122		70 - 130			12/29/21 13:57	12/31/21 11:25	1

Lab Sample ID: LCS 880-15730/2-A

Matrix: Solid

Analysis Batch: 15823

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	952.7		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1199		mg/Kg		120	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	108		70 - 130				
o-Terphenyl (Surr)	86		70 - 130				

Lab Sample ID: LCSD 880-15730/3-A

Matrix: Solid

Analysis Batch: 15823

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15730

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1014		mg/Kg		101	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1322	*+	mg/Kg		132	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	114		70 - 130						
o-Terphenyl (Surr)	91		70 - 130						

Lab Sample ID: 890-1749-1 MS

Matrix: Solid

Analysis Batch: 15823

Client Sample ID: C-1246-2 1-4'

Prep Type: Total/NA

Prep Batch: 15730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	498	479.6		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *	498	428.5		mg/Kg		86	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	84		70 - 130						
o-Terphenyl (Surr)	72		70 - 130						

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1749-1 MSD

Matrix: Solid

Analysis Batch: 15823

Client Sample ID: C-1246-2 1-4'

Prep Type: Total/NA

Prep Batch: 15730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	500	482.3		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	500	425.5		mg/Kg		85	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	83		70 - 130								
o-Terphenyl (Surr)	71		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15515/1-A

Matrix: Solid

Analysis Batch: 15751

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/31/21 12:29	1

Lab Sample ID: LCS 880-15515/2-A

Matrix: Solid

Analysis Batch: 15751

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	253.3		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-15515/3-A

Matrix: Solid

Analysis Batch: 15751

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	252.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1749-1 MS

Matrix: Solid

Analysis Batch: 15751

Client Sample ID: C-1246-2 1-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	212		251	477.8		mg/Kg		106	90 - 110

Lab Sample ID: 890-1749-1 MSD

Matrix: Solid

Analysis Batch: 15751

Client Sample ID: C-1246-2 1-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	212		251	479.3		mg/Kg		106	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

GC VOA

Analysis Batch: 15548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1749-1	C-1246-2 1-4'	Total/NA	Solid	8021B	15551
MB 880-15551/5-A	Method Blank	Total/NA	Solid	8021B	15551
MB 880-15572/5-A	Method Blank	Total/NA	Solid	8021B	15572
LCS 880-15551/1-A	Lab Control Sample	Total/NA	Solid	8021B	15551
LCSD 880-15551/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15551
880-9679-A-6-D MS	Matrix Spike	Total/NA	Solid	8021B	15551
880-9679-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15551

Prep Batch: 15551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1749-1	C-1246-2 1-4'	Total/NA	Solid	5035	
MB 880-15551/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15551/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15551/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9679-A-6-D MS	Matrix Spike	Total/NA	Solid	5035	
880-9679-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 15572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-15572/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 15797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1749-1	C-1246-2 1-4'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1749-1	C-1246-2 1-4'	Total/NA	Solid	8015NM Prep	
MB 880-15730/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15730/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15730/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1749-1 MS	C-1246-2 1-4'	Total/NA	Solid	8015NM Prep	
890-1749-1 MSD	C-1246-2 1-4'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1749-1	C-1246-2 1-4'	Total/NA	Solid	8015B NM	15730
MB 880-15730/1-A	Method Blank	Total/NA	Solid	8015B NM	15730
LCS 880-15730/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15730
LCSD 880-15730/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15730
890-1749-1 MS	C-1246-2 1-4'	Total/NA	Solid	8015B NM	15730
890-1749-1 MSD	C-1246-2 1-4'	Total/NA	Solid	8015B NM	15730

Analysis Batch: 15912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1749-1	C-1246-2 1-4'	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 15515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1749-1	C-1246-2 1-4'	Soluble	Solid	DI Leach	
MB 880-15515/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15515/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15515/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1749-1 MS	C-1246-2 1-4'	Soluble	Solid	DI Leach	
890-1749-1 MSD	C-1246-2 1-4'	Soluble	Solid	DI Leach	

Analysis Batch: 15751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1749-1	C-1246-2 1-4'	Soluble	Solid	300.0	15515
MB 880-15515/1-A	Method Blank	Soluble	Solid	300.0	15515
LCS 880-15515/2-A	Lab Control Sample	Soluble	Solid	300.0	15515
LCSD 880-15515/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15515
890-1749-1 MS	C-1246-2 1-4'	Soluble	Solid	300.0	15515
890-1749-1 MSD	C-1246-2 1-4'	Soluble	Solid	300.0	15515

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

Client Sample ID: C-1246-2 1-4'

Lab Sample ID: 890-1749-1

Date Collected: 12/22/21 10:20

Matrix: Solid

Date Received: 12/22/21 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	15551	12/27/21 09:28	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15548	12/28/21 09:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15797	12/30/21 10:20	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/03/22 14:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15730	12/29/21 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15823	12/31/21 12:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	15515	12/24/21 18:31	SC	XEN MID
Soluble	Analysis	300.0		1			15751	12/31/21 12:54	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1749-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1749-1	C-1246-2 1-4'	Solid	12/22/21 10:20	12/22/21 14:50

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

No. 2328

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1749-1

SDG Number: 21-0105-02

Login Number: 1749

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1749-1

SDG Number: 21-0105-02

Login Number: 1749

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Xenco, Midland

List Creation: 12/23/21 01:03 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1775-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: PALMIO AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/4/2022 2:48:01 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Laboratory Job ID: 890-1775-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Job ID: 890-1775-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1775-1****Receipt**

The samples were received on 12/28/2021 3:59 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.8°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-496 3.5' (890-1775-1), C-493 4.1' (890-1775-2), C-342 1-1.5' (890-1775-3) and (890-1773-A-1-C). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15861 and analytical batch 880-15872 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-15803 and analytical batch 880-15920 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Client Sample ID: C-496 3.5'

Lab Sample ID: 890-1775-1

Date Collected: 12/28/21 10:30

Matrix: Solid

Date Received: 12/28/21 15:59

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/02/22 04:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/02/22 04:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/02/22 04:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/30/21 14:12	01/02/22 04:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/02/22 04:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/30/21 14:12	01/02/22 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	12/30/21 14:12	01/02/22 04:53	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/30/21 14:12	01/02/22 04:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/03/22 13:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/04/22 15:21	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 18:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 18:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	133	S1+	70 - 130	01/03/22 09:15	01/03/22 18:39	1
o-Terphenyl (Surr)	157	S1+	70 - 130	01/03/22 09:15	01/03/22 18:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		5.01	mg/Kg			01/04/22 08:57	1

Client Sample ID: C-493 4.1'

Lab Sample ID: 890-1775-2

Date Collected: 12/28/21 14:00

Matrix: Solid

Date Received: 12/28/21 15:59

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 05:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 05:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 05:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/30/21 14:12	01/02/22 05:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 05:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/30/21 14:12	01/02/22 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/30/21 14:12	01/02/22 05:20	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/30/21 14:12	01/02/22 05:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Client Sample ID: C-493 4.1'

Lab Sample ID: 890-1775-2

Date Collected: 12/28/21 14:00

Matrix: Solid

Date Received: 12/28/21 15:59

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/03/22 13:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/04/22 15:21	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 19:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 19:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 19:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	136	S1+	70 - 130			01/03/22 09:15	01/03/22 19:00	1
o-Terphenyl (Surr)	163	S1+	70 - 130			01/03/22 09:15	01/03/22 19:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	478		4.97	mg/Kg			01/04/22 09:09	1

Client Sample ID: C-342 1-1.5'

Lab Sample ID: 890-1775-3

Date Collected: 12/28/21 15:00

Matrix: Solid

Date Received: 12/28/21 15:59

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/02/22 05:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/02/22 05:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/02/22 05:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/30/21 14:12	01/02/22 05:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/02/22 05:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/30/21 14:12	01/02/22 05:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			12/30/21 14:12	01/02/22 05:47	1
1,4-Difluorobenzene (Surr)	101		70 - 130			12/30/21 14:12	01/02/22 05:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/03/22 13:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/04/22 15:21	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 19:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 19:21	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Client Sample ID: C-342 1-1.5'

Lab Sample ID: 890-1775-3

Date Collected: 12/28/21 15:00

Matrix: Solid

Date Received: 12/28/21 15:59

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	130		70 - 130	01/03/22 09:15	01/03/22 19:21	1
o-Terphenyl (Surr)	158	S1+	70 - 130	01/03/22 09:15	01/03/22 19:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.1		4.99	mg/Kg			01/04/22 09:21	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9746-A-6-G MS	Matrix Spike	127	111
880-9746-A-6-H MSD	Matrix Spike Duplicate	127	106
890-1775-1	C-496 3.5'	139 S1+	97
890-1775-2	C-493 4.1'	124	94
890-1775-3	C-342 1-1.5'	128	101
LCS 880-15812/1-A	Lab Control Sample	121	0 S1-
LCSD 880-15812/2-A	Lab Control Sample Dup	143 S1+	117
MB 880-15812/5-A	Method Blank	90	87
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1773-A-1-D MS	Matrix Spike	113	118
890-1773-A-1-E MSD	Matrix Spike Duplicate	104	110
890-1775-1	C-496 3.5'	133 S1+	157 S1+
890-1775-2	C-493 4.1'	136 S1+	163 S1+
890-1775-3	C-342 1-1.5'	130	158 S1+
LCS 880-15861/2-A	Lab Control Sample	116	111
LCSD 880-15861/3-A	Lab Control Sample Dup	107	102
MB 880-15861/1-A	Method Blank	96	120
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15812/5-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15812

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/30/21 14:12	01/01/22 21:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	12/30/21 14:12	01/01/22 21:46	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/30/21 14:12	01/01/22 21:46	1

Lab Sample ID: LCS 880-15812/1-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09353		mg/Kg		94	70 - 130
Toluene	0.100	0.08852		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.07882		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1608		mg/Kg		80	70 - 130
o-Xylene	0.100	0.07679		mg/Kg		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	0	S1-	70 - 130

Lab Sample ID: LCSD 880-15812/2-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15812

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07182		mg/Kg		72	70 - 130	26	35
Toluene	0.100	0.08616		mg/Kg		86	70 - 130	3	35
Ethylbenzene	0.100	0.08216		mg/Kg		82	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1660		mg/Kg		83	70 - 130	3	35
o-Xylene	0.100	0.08149		mg/Kg		81	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-9746-A-6-G MS

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15812

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1	0.0994	0.06266	F1	mg/Kg		63	70 - 130
Toluene	<0.00202	U F1	0.0994	0.06389	F1	mg/Kg		64	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-9746-A-6-G MS

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15812

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00202	U F1	0.0994	0.06876	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1390		mg/Kg		70	70 - 130
o-Xylene	<0.00202	U F1	0.0994	0.06885	F1	mg/Kg		69	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-9746-A-6-H MSD

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15812

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.0998	0.06980		mg/Kg		70	70 - 130	11	35
Toluene	<0.00202	U F1	0.0998	0.007273	F1 F2	mg/Kg		7	70 - 130	159	35
Ethylbenzene	<0.00202	U F1	0.0998	0.06958		mg/Kg		70	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1399		mg/Kg		70	70 - 130	1	35
o-Xylene	<0.00202	U F1	0.0998	0.06893	F1	mg/Kg		69	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-15861/1-A

Matrix: Solid

Analysis Batch: 15872

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15861

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 10:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 10:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	01/03/22 09:15	01/03/22 10:57	1
o-Terphenyl (Surr)	120		70 - 130	01/03/22 09:15	01/03/22 10:57	1

Lab Sample ID: LCS 880-15861/2-A

Matrix: Solid

Analysis Batch: 15872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1059		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1210		mg/Kg		121	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-15861/2-A
Matrix: Solid
Analysis Batch: 15872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15861

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	116		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-15861/3-A
Matrix: Solid
Analysis Batch: 15872

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 15861

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	985.7		mg/Kg		99	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1132		mg/Kg		113	70 - 130	7	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	102		70 - 130

Lab Sample ID: 890-1773-A-1-D MS
Matrix: Solid
Analysis Batch: 15872

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 15861

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	996	796.6		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	499.7	F1	mg/Kg		47	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	118		70 - 130

Lab Sample ID: 890-1773-A-1-E MSD
Matrix: Solid
Analysis Batch: 15872

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 15861

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	999	465.0	F1 F2	mg/Kg		47	70 - 130	53	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	469.3	F1	mg/Kg		44	70 - 130	6	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	110		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15803/1-A

Matrix: Solid

Analysis Batch: 15920

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/03/22 16:56	1

Lab Sample ID: LCS 880-15803/2-A

Matrix: Solid

Analysis Batch: 15920

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.5		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-15803/3-A

Matrix: Solid

Analysis Batch: 15920

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	239.6		mg/Kg		96	90 - 110	2	20

Lab Sample ID: 890-1770-A-1-F MS

Matrix: Solid

Analysis Batch: 15920

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	287	F1	250	527.7		mg/Kg		97	90 - 110

Lab Sample ID: 890-1770-A-1-G MSD

Matrix: Solid

Analysis Batch: 15920

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	287	F1	250	505.3	F1	mg/Kg		88	90 - 110	4	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

GC VOA

Prep Batch: 15812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1775-1	C-496 3.5'	Total/NA	Solid	5035	
890-1775-2	C-493 4.1'	Total/NA	Solid	5035	
890-1775-3	C-342 1-1.5'	Total/NA	Solid	5035	
MB 880-15812/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15812/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15812/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9746-A-6-G MS	Matrix Spike	Total/NA	Solid	5035	
880-9746-A-6-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1775-1	C-496 3.5'	Total/NA	Solid	8021B	15812
890-1775-2	C-493 4.1'	Total/NA	Solid	8021B	15812
890-1775-3	C-342 1-1.5'	Total/NA	Solid	8021B	15812
MB 880-15812/5-A	Method Blank	Total/NA	Solid	8021B	15812
LCS 880-15812/1-A	Lab Control Sample	Total/NA	Solid	8021B	15812
LCSD 880-15812/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15812
880-9746-A-6-G MS	Matrix Spike	Total/NA	Solid	8021B	15812
880-9746-A-6-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15812

Analysis Batch: 15908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1775-1	C-496 3.5'	Total/NA	Solid	Total BTEX	
890-1775-2	C-493 4.1'	Total/NA	Solid	Total BTEX	
890-1775-3	C-342 1-1.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1775-1	C-496 3.5'	Total/NA	Solid	8015NM Prep	
890-1775-2	C-493 4.1'	Total/NA	Solid	8015NM Prep	
890-1775-3	C-342 1-1.5'	Total/NA	Solid	8015NM Prep	
MB 880-15861/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15861/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15861/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1773-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1773-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1775-1	C-496 3.5'	Total/NA	Solid	8015B NM	15861
890-1775-2	C-493 4.1'	Total/NA	Solid	8015B NM	15861
890-1775-3	C-342 1-1.5'	Total/NA	Solid	8015B NM	15861
MB 880-15861/1-A	Method Blank	Total/NA	Solid	8015B NM	15861
LCS 880-15861/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15861
LCSD 880-15861/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15861
890-1773-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	15861
890-1773-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15861

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 15912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1775-1	C-496 3.5'	Total/NA	Solid	8015 NM	
890-1775-2	C-493 4.1'	Total/NA	Solid	8015 NM	
890-1775-3	C-342 1-1.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1775-1	C-496 3.5'	Soluble	Solid	DI Leach	
890-1775-2	C-493 4.1'	Soluble	Solid	DI Leach	
890-1775-3	C-342 1-1.5'	Soluble	Solid	DI Leach	
MB 880-15803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1770-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1770-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 15920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1775-1	C-496 3.5'	Soluble	Solid	300.0	15803
890-1775-2	C-493 4.1'	Soluble	Solid	300.0	15803
890-1775-3	C-342 1-1.5'	Soluble	Solid	300.0	15803
MB 880-15803/1-A	Method Blank	Soluble	Solid	300.0	15803
LCS 880-15803/2-A	Lab Control Sample	Soluble	Solid	300.0	15803
LCSD 880-15803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15803
890-1770-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	15803
890-1770-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15803

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Client Sample ID: C-496 3.5'**Lab Sample ID: 890-1775-1****Date Collected: 12/28/21 10:30****Matrix: Solid****Date Received: 12/28/21 15:59**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15844	01/02/22 04:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15908	01/03/22 13:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15872	01/03/22 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1			15920	01/04/22 08:57	CH	XEN MID

Client Sample ID: C-493 4.1'**Lab Sample ID: 890-1775-2****Date Collected: 12/28/21 14:00****Matrix: Solid****Date Received: 12/28/21 15:59**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15844	01/02/22 05:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15908	01/03/22 13:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15872	01/03/22 19:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1			15920	01/04/22 09:09	CH	XEN MID

Client Sample ID: C-342 1-1.5'**Lab Sample ID: 890-1775-3****Date Collected: 12/28/21 15:00****Matrix: Solid****Date Received: 12/28/21 15:59**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15844	01/02/22 05:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15908	01/03/22 13:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15872	01/03/22 19:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1			15920	01/04/22 09:21	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1775-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1775-1	C-496 3.5'	Solid	12/28/21 10:30	12/28/21 15:59
890-1775-2	C-493 4.1'	Solid	12/28/21 14:00	12/28/21 15:59
890-1775-3	C-342 1-1.5'	Solid	12/28/21 15:00	12/28/21 15:59

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

1
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10
11
12
13
14

Marson & Associates, Inc.

Environmental Consultants



890-1775 Chain of Custody

Cooling in progress

CHAIN-OF-CUSTODY

No. 2329

DATE: 12-28-21

PAGE 1 OF 1

PO#:

LAB WORK ORDER#

PROJECT LOCATION OR NAME:

Palmdale

LAI PROJECT #:

21-0105-02

COLLECTOR:

JP

Data Reported to:

☐ TRRP report?
☒ Yes ☐ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time Zone/State
MST/NA

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES
BTEX/MTBE
TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐
GASOLINE MOD 8015 ☐DIESEL - MOD 8015 ☐OIL - MOD 8015 ☐VOC 8260 ☐SVOC 8270 ☐8081 PESTICIDES ☐8082 PESTICIDES ☐TCDF - METALS (RCRA) ☐TCDF - PEST ☐TOTAL METALS (RCRA) ☐LEAD - TOTAL ☐RCI ☐TDS ☐TSS ☐pH ☐EXPLOSIVES ☐CHLORIDE ☐ANIONS ☐ALKALINITY ☐CYANIDE ☐OTHER LIST ☐Semi-VOC ☐Flashpoint ☐Moisture ☐Hexavalent Chromium ☐Pechlorate ☐Cyanide ☐Alkalinity ☐

Field Notes

C-440 3.51
C-443 4.11
C-342 1.15

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES
BTEX/MTBE
TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐
GASOLINE MOD 8015 ☐DIESEL - MOD 8015 ☐OIL - MOD 8015 ☐VOC 8260 ☐SVOC 8270 ☐8081 PESTICIDES ☐8082 PESTICIDES ☐TCDF - METALS (RCRA) ☐TCDF - PEST ☐TOTAL METALS (RCRA) ☐LEAD - TOTAL ☐RCI ☐TDS ☐TSS ☐pH ☐EXPLOSIVES ☐CHLORIDE ☐ANIONS ☐ALKALINITY ☐CYANIDE ☐OTHER LIST ☐Semi-VOC ☐Flashpoint ☐Moisture ☐Hexavalent Chromium ☐Pechlorate ☐Cyanide ☐Alkalinity ☐

Field Notes

TOTAL 3

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP. 20.0/40.0 THERM# T-111111

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP. 20.0/40.0 THERM# T-111111

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP. 20.0/40.0 THERM# T-111111

LABORATORY

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP. 20.0/40.0 THERM# T-111111

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1775-1

SDG Number: 21-0105-02

Login Number: 1775

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1775-1

SDG Number: 21-0105-02

Login Number: 1775

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Xenco, Midland

List Creation: 12/30/21 11:52 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1779-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/5/2022 1:32:52 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1779-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Job ID: 890-1779-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1779-1

Receipt

The samples were received on 12/29/2021 3:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 23.2°C

GC VOA

Method 8021B: 4-Bromofluorobenzene recovery for the following samples were outside control limits: C-153 4.1 (890-1779-1) and (880-9761-A-1-H). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Client Sample ID: C-153 4.1

Lab Sample ID: 890-1779-1

Date Collected: 12/29/21 11:00

Matrix: Solid

Date Received: 12/29/21 15:07

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/03/22 10:15	01/03/22 17:59	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/03/22 10:15	01/03/22 17:59	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/03/22 10:15	01/03/22 17:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/03/22 10:15	01/03/22 17:59	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/03/22 10:15	01/03/22 17:59	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/03/22 10:15	01/03/22 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	01/03/22 10:15	01/03/22 17:59	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/03/22 10:15	01/03/22 17:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/05/22 13:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/05/22 14:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/03/22 09:26	01/03/22 18:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/03/22 09:26	01/03/22 18:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/22 09:26	01/03/22 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	150	S1+	70 - 130	01/03/22 09:26	01/03/22 18:21	1
o-Terphenyl (Surr)	145	S1+	70 - 130	01/03/22 09:26	01/03/22 18:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		4.99	mg/Kg			01/04/22 09:10	1

Client Sample ID: C-651 4.1

Lab Sample ID: 890-1779-2

Date Collected: 12/29/21 11:15

Matrix: Solid

Date Received: 12/29/21 15:07

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 18:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 18:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 18:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/03/22 10:15	01/03/22 18:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 18:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/03/22 10:15	01/03/22 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/03/22 10:15	01/03/22 18:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Client Sample ID: C-651 4.1

Lab Sample ID: 890-1779-2

Date Collected: 12/29/21 11:15

Matrix: Solid

Date Received: 12/29/21 15:07

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	01/03/22 10:15	01/03/22 18:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/05/22 13:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/05/22 14:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 18:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 18:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	152	S1+	70 - 130			01/03/22 09:26	01/03/22 18:41	1
o-Terphenyl (Surr)	146	S1+	70 - 130			01/03/22 09:26	01/03/22 18:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1630		25.1	mg/Kg			01/04/22 09:34	5

Client Sample ID: C-183 4.1

Lab Sample ID: 890-1779-3

Date Collected: 12/29/21 11:20

Matrix: Solid

Date Received: 12/29/21 15:07

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 18:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 18:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 18:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/03/22 10:15	01/03/22 18:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 18:41	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/03/22 10:15	01/03/22 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/03/22 10:15	01/03/22 18:41	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/03/22 10:15	01/03/22 18:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/05/22 13:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/05/22 14:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Client Sample ID: C-183 4.1

Lab Sample ID: 890-1779-3

Date Collected: 12/29/21 11:20

Matrix: Solid

Date Received: 12/29/21 15:07

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/03/22 09:26	01/03/22 19:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/03/22 09:26	01/03/22 19:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/22 09:26	01/03/22 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	158	S1+	70 - 130			01/03/22 09:26	01/03/22 19:02	1
o-Terphenyl (Surr)	151	S1+	70 - 130			01/03/22 09:26	01/03/22 19:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	306		4.98	mg/Kg			01/04/22 09:42	1

Client Sample ID: C-238 3.0

Lab Sample ID: 890-1779-4

Date Collected: 12/29/21 12:45

Matrix: Solid

Date Received: 12/29/21 15:07

Sample Depth: 3.0

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 19:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 19:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 19:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/03/22 10:15	01/03/22 19:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 19:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/03/22 10:15	01/03/22 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			01/03/22 10:15	01/03/22 19:02	1
1,4-Difluorobenzene (Surr)	103		70 - 130			01/03/22 10:15	01/03/22 19:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/05/22 13:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/05/22 14:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 19:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 19:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	146	S1+	70 - 130			01/03/22 09:26	01/03/22 19:23	1
o-Terphenyl (Surr)	138	S1+	70 - 130			01/03/22 09:26	01/03/22 19:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Client Sample ID: C-238 3.0
Date Collected: 12/29/21 12:45
Date Received: 12/29/21 15:07
Sample Depth: 3.0

Lab Sample ID: 890-1779-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	102		4.95	mg/Kg			01/04/22 09:50	1	

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9761-A-1-F MS	Matrix Spike	105	103
880-9761-A-1-G MSD	Matrix Spike Duplicate	115	112
890-1779-1	C-153 4.1	114	94
890-1779-2	C-651 4.1	108	93
890-1779-3	C-183 4.1	123	91
890-1779-4	C-238 3.0	116	103
LCS 880-15880/1-A	Lab Control Sample	110	104
LCSD 880-15880/2-A	Lab Control Sample Dup	104	99
MB 880-15880/5-A	Method Blank	118	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1776-A-1-F MS	Matrix Spike	123	101
890-1776-A-1-G MSD	Matrix Spike Duplicate	122	114
890-1779-1	C-153 4.1	150 S1+	145 S1+
890-1779-2	C-651 4.1	152 S1+	146 S1+
890-1779-3	C-183 4.1	158 S1+	151 S1+
890-1779-4	C-238 3.0	146 S1+	138 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-15867/2-A	Lab Control Sample	106	101
LCSD 880-15867/3-A	Lab Control Sample Dup	116	103
MB 880-15867/1-A	Method Blank	112	115

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15880/5-A

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15880

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/03/22 10:15	01/03/22 16:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/03/22 10:15	01/03/22 16:07	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/03/22 10:15	01/03/22 16:07	1

Lab Sample ID: LCS 880-15880/1-A

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07590		mg/Kg		76	70 - 130
Toluene	0.100	0.08444		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08959		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1803		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08893		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-15880/2-A

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07867		mg/Kg		79	70 - 130	4	35
Toluene	0.100	0.07724		mg/Kg		77	70 - 130	9	35
Ethylbenzene	0.100	0.08677		mg/Kg		87	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1679		mg/Kg		84	70 - 130	7	35
o-Xylene	0.100	0.08165		mg/Kg		82	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-9761-A-1-F MS

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0990	0.06999		mg/Kg		71	70 - 130
Toluene	<0.00200	U	0.0990	0.07015		mg/Kg		71	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-9761-A-1-F MS

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.0990	0.07018		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1	0.198	0.1314	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00200	U	0.0990	0.06933		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-9761-A-1-G MSD

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07134		mg/Kg		71	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.07064		mg/Kg		71	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.07258		mg/Kg		73	70 - 130	3	35
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.1504		mg/Kg		75	70 - 130	13	35
o-Xylene	<0.00200	U	0.100	0.07389		mg/Kg		74	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-15867/1-A

Matrix: Solid

Analysis Batch: 15869

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15867

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 10:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 10:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 10:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	01/03/22 09:26	01/03/22 10:58	1
o-Terphenyl (Surr)	115		70 - 130	01/03/22 09:26	01/03/22 10:58	1

Lab Sample ID: LCS 880-15867/2-A

Matrix: Solid

Analysis Batch: 15869

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1094		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1030		mg/Kg		103	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-15867/2-A
Matrix: Solid
Analysis Batch: 15869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15867

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-15867/3-A
Matrix: Solid
Analysis Batch: 15869

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 15867

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1023		mg/Kg		102	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1036		mg/Kg		104	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	116		70 - 130
o-Terphenyl (Surr)	103		70 - 130

Lab Sample ID: 890-1776-A-1-F MS
Matrix: Solid
Analysis Batch: 15869

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 15867

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	988.5		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	80.5		996	1038		mg/Kg		96	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	123		70 - 130
o-Terphenyl (Surr)	101		70 - 130

Lab Sample ID: 890-1776-A-1-G MSD
Matrix: Solid
Analysis Batch: 15869

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 15867

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	989.9		mg/Kg		96	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	80.5		999	1040		mg/Kg		96	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	122		70 - 130
o-Terphenyl (Surr)	114		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15878/1-A

Matrix: Solid

Analysis Batch: 15923

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/04/22 08:47	1

Lab Sample ID: LCS 880-15878/2-A

Matrix: Solid

Analysis Batch: 15923

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-15878/3-A

Matrix: Solid

Analysis Batch: 15923

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	246.2		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-1779-1 MS

Matrix: Solid

Analysis Batch: 15923

Client Sample ID: C-153 4.1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1110		250	1297	4	mg/Kg		74	90 - 110

Lab Sample ID: 890-1779-1 MSD

Matrix: Solid

Analysis Batch: 15923

Client Sample ID: C-153 4.1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1110		250	1287	4	mg/Kg		70	90 - 110	1	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

GC VOA

Analysis Batch: 15550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1779-1	C-153 4.1	Total/NA	Solid	8021B	15880
890-1779-2	C-651 4.1	Total/NA	Solid	8021B	15880
890-1779-3	C-183 4.1	Total/NA	Solid	8021B	15880
890-1779-4	C-238 3.0	Total/NA	Solid	8021B	15880
MB 880-15880/5-A	Method Blank	Total/NA	Solid	8021B	15880
LCS 880-15880/1-A	Lab Control Sample	Total/NA	Solid	8021B	15880
LCSD 880-15880/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15880
880-9761-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	15880
880-9761-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15880

Prep Batch: 15880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1779-1	C-153 4.1	Total/NA	Solid	5035	
890-1779-2	C-651 4.1	Total/NA	Solid	5035	
890-1779-3	C-183 4.1	Total/NA	Solid	5035	
890-1779-4	C-238 3.0	Total/NA	Solid	5035	
MB 880-15880/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15880/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15880/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9761-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-9761-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1779-1	C-153 4.1	Total/NA	Solid	Total BTEX	
890-1779-2	C-651 4.1	Total/NA	Solid	Total BTEX	
890-1779-3	C-183 4.1	Total/NA	Solid	Total BTEX	
890-1779-4	C-238 3.0	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1779-1	C-153 4.1	Total/NA	Solid	8015NM Prep	
890-1779-2	C-651 4.1	Total/NA	Solid	8015NM Prep	
890-1779-3	C-183 4.1	Total/NA	Solid	8015NM Prep	
890-1779-4	C-238 3.0	Total/NA	Solid	8015NM Prep	
MB 880-15867/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15867/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15867/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1776-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1776-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1779-1	C-153 4.1	Total/NA	Solid	8015B NM	15867
890-1779-2	C-651 4.1	Total/NA	Solid	8015B NM	15867
890-1779-3	C-183 4.1	Total/NA	Solid	8015B NM	15867
890-1779-4	C-238 3.0	Total/NA	Solid	8015B NM	15867
MB 880-15867/1-A	Method Blank	Total/NA	Solid	8015B NM	15867
LCS 880-15867/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15867

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 15869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-15867/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15867
890-1776-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	15867
890-1776-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15867

Analysis Batch: 16097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1779-1	C-153 4.1	Total/NA	Solid	8015 NM	
890-1779-2	C-651 4.1	Total/NA	Solid	8015 NM	
890-1779-3	C-183 4.1	Total/NA	Solid	8015 NM	
890-1779-4	C-238 3.0	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1779-1	C-153 4.1	Soluble	Solid	DI Leach	
890-1779-2	C-651 4.1	Soluble	Solid	DI Leach	
890-1779-3	C-183 4.1	Soluble	Solid	DI Leach	
890-1779-4	C-238 3.0	Soluble	Solid	DI Leach	
MB 880-15878/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15878/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15878/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1779-1 MS	C-153 4.1	Soluble	Solid	DI Leach	
890-1779-1 MSD	C-153 4.1	Soluble	Solid	DI Leach	

Analysis Batch: 15923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1779-1	C-153 4.1	Soluble	Solid	300.0	15878
890-1779-2	C-651 4.1	Soluble	Solid	300.0	15878
890-1779-3	C-183 4.1	Soluble	Solid	300.0	15878
890-1779-4	C-238 3.0	Soluble	Solid	300.0	15878
MB 880-15878/1-A	Method Blank	Soluble	Solid	300.0	15878
LCS 880-15878/2-A	Lab Control Sample	Soluble	Solid	300.0	15878
LCSD 880-15878/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15878
890-1779-1 MS	C-153 4.1	Soluble	Solid	300.0	15878
890-1779-1 MSD	C-153 4.1	Soluble	Solid	300.0	15878

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Client Sample ID: C-153 4.1

Lab Sample ID: 890-1779-1

Date Collected: 12/29/21 11:00

Matrix: Solid

Date Received: 12/29/21 15:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15550	01/03/22 17:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15867	01/03/22 09:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15869	01/03/22 18:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		1			15923	01/04/22 09:10	CH	XEN MID

Client Sample ID: C-651 4.1

Lab Sample ID: 890-1779-2

Date Collected: 12/29/21 11:15

Matrix: Solid

Date Received: 12/29/21 15:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15550	01/03/22 18:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	15867	01/03/22 09:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15869	01/03/22 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		5			15923	01/04/22 09:34	CH	XEN MID

Client Sample ID: C-183 4.1

Lab Sample ID: 890-1779-3

Date Collected: 12/29/21 11:20

Matrix: Solid

Date Received: 12/29/21 15:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15550	01/03/22 18:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15867	01/03/22 09:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15869	01/03/22 19:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		1			15923	01/04/22 09:42	CH	XEN MID

Client Sample ID: C-238 3.0

Lab Sample ID: 890-1779-4

Date Collected: 12/29/21 12:45

Matrix: Solid

Date Received: 12/29/21 15:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15550	01/03/22 19:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Client Sample ID: C-238 3.0
Date Collected: 12/29/21 12:45
Date Received: 12/29/21 15:07

Lab Sample ID: 890-1779-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	15867	01/03/22 09:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15869	01/03/22 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		1			15923	01/04/22 09:50	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1779-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1779-1	C-153 4.1	Solid	12/29/21 11:00	12/29/21 15:07	4.1
890-1779-2	C-651 4.1	Solid	12/29/21 11:15	12/29/21 15:07	4.1
890-1779-3	C-183 4.1	Solid	12/29/21 11:20	12/29/21 15:07	4.1
890-1779-4	C-238 3.0	Solid	12/29/21 12:45	12/29/21 15:07	3.0

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No. 2330

CHAIN-OF-CUSTODY

Cooling in progress

DATE: Palmio Ast PAGE 1 OF 1

LAB WORK ORDER#: Palmio Ast

PROJECT LOCATION OR NAME: Palmio Ast

LAI PROJECT #: 21-0105-02 COLLECTOR: TP

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432 687-0901

Arson & Associates, Inc.
Environmental Consultants

Data Reported to

TRRP report?
☐ Yes ☒ No

TIME ZONE
Time zone/State
MSA/NM

Field Sample ID

C-153 4.1
C-651 4.1
C-183 4.1
C-238 4.0

Lab #

Date

Time

Matrix

of Containers

PRESERVATION

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

TRPH 418 ☐ TPH 1005 ☐ TPH 1006 ☐

GASOLINE MOD 8015 ☐

DIESEL MOD 8015 ☐

OIL MOD 8015 ☐

SVOC 8270 ☐ PAH 8270 ☐

8081 PESTICIDES ☐

8082 PCBs ☐

TCLP PCBs ☐

TCLP METALS (RCRA) ☐ 8151 HERBICIDES ☐

TCLP METALS (RCRA) ☐ 8151 HERBICIDES ☐

TCLP VOC ☐ TCLP VOC ☐

LEAD - TOTAL (RCRA) ☐ SEMI-VOC ☐

TDS ☐ TOX ☐ D.W. 200.8 ☐ FLASHPOINT ☐ TCLP ☐

PH ☐ TSS ☐ % MOISTURE ☐

EXPLOSIVES ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐

CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

FIELD NOTES



890-1779 Chain of Custody

TOTAL 4

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP 23.4 4/22/2007 THERM# TP-100007CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED☐ CARRIER BILL # ☒ HAND DELIVERED

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP 23.4 4/22/2007 THERM# TP-100007CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED☐ CARRIER BILL # ☒ HAND DELIVERED

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RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1779-1

SDG Number: 21-0105-02

Login Number: 1779

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1779-1

SDG Number: 21-0105-02

Login Number: 1779

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland

List Creation: 01/03/22 08:31 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-9776-1
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/6/2022 2:22:18 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-9776-1

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Job ID: 880-9776-1

Laboratory: Eurofins Xenco

Narrative	Job Narrative 880-9776-1
-----------	-----------------------------

Receipt

The samples were received on 1/3/2022 2:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15881 and analytical batch 880-15940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The method blank for preparation batch 880-15946 and analytical batch 880-15965 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Client Sample ID: C-727 2.5'

Lab Sample ID: 880-9776-1

Date Collected: 12/30/21 09:05

Matrix: Solid

Date Received: 01/03/22 14:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201	mg/Kg		01/03/22 16:00	01/04/22 13:20	1
Toluene	<0.00201	U F1	0.00201	mg/Kg		01/03/22 16:00	01/04/22 13:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/03/22 16:00	01/04/22 13:20	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		01/03/22 16:00	01/04/22 13:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/03/22 16:00	01/04/22 13:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/03/22 16:00	01/04/22 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/03/22 16:00	01/04/22 13:20	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/03/22 16:00	01/04/22 13:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/04/22 14:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/06/22 15:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/04/22 08:34	01/04/22 12:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/04/22 08:34	01/04/22 12:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/04/22 08:34	01/04/22 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130	01/04/22 08:34	01/04/22 12:00	1
o-Terphenyl (Surr)	121		70 - 130	01/04/22 08:34	01/04/22 12:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275		4.99	mg/Kg			01/05/22 21:24	1

Client Sample ID: C-730 4.1'

Lab Sample ID: 880-9776-2

Date Collected: 12/30/21 10:00

Matrix: Solid

Date Received: 01/03/22 14:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/03/22 16:00	01/04/22 13:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/03/22 16:00	01/04/22 13:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/03/22 16:00	01/04/22 13:41	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		01/03/22 16:00	01/04/22 13:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/03/22 16:00	01/04/22 13:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/03/22 16:00	01/04/22 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/03/22 16:00	01/04/22 13:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/03/22 16:00	01/04/22 13:41	1

Eurofins Xenco

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Client Sample ID: C-730 4.1'

Lab Sample ID: 880-9776-2

Date Collected: 12/30/21 10:00

Matrix: Solid

Date Received: 01/03/22 14:14

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/04/22 14:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/06/22 15:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/22 08:34	01/04/22 13:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/22 08:34	01/04/22 13:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/22 08:34	01/04/22 13:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			01/04/22 08:34	01/04/22 13:02	1
o-Terphenyl (Surr)	115		70 - 130			01/04/22 08:34	01/04/22 13:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	521		4.95	mg/Kg			01/05/22 21:47	1

Eurofins Xenco

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9776-1	C-727 2.5'	118	94
880-9776-1 MS	C-727 2.5'	117	112
880-9776-1 MSD	C-727 2.5'	112	102
880-9776-2	C-730 4.1'	121	100
LCS 880-15881/1-A	Lab Control Sample	113	105
LCSD 880-15881/2-A	Lab Control Sample Dup	114	104
MB 880-15881/5-A	Method Blank	123	104
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-9776-1	C-727 2.5'	121	121
880-9776-1 MS	C-727 2.5'	108	107
880-9776-1 MSD	C-727 2.5'	104	108
880-9776-2	C-730 4.1'	113	115
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-15946/2-A	Lab Control Sample	94	93
LCSD 880-15946/3-A	Lab Control Sample Dup	98	92
MB 880-15946/1-A	Method Blank	110	118
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Eurofins Xenco

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15881/5-A

Matrix: Solid

Analysis Batch: 15940

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15881

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 16:00	01/04/22 12:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 16:00	01/04/22 12:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 16:00	01/04/22 12:52	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/03/22 16:00	01/04/22 12:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 16:00	01/04/22 12:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/03/22 16:00	01/04/22 12:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/03/22 16:00	01/04/22 12:52	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/03/22 16:00	01/04/22 12:52	1

Lab Sample ID: LCS 880-15881/1-A

Matrix: Solid

Analysis Batch: 15940

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07225		mg/Kg		72	70 - 130
Toluene	0.100	0.07317		mg/Kg		73	70 - 130
Ethylbenzene	0.100	0.08304		mg/Kg		83	70 - 130
m,p-Xylenes	0.200	0.1620		mg/Kg		81	70 - 130
o-Xylene	0.100	0.08231		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-15881/2-A

Matrix: Solid

Analysis Batch: 15940

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15881

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07039		mg/Kg		70	70 - 130	3	35
Toluene	0.100	0.07719		mg/Kg		77	70 - 130	5	35
Ethylbenzene	0.100	0.08395		mg/Kg		84	70 - 130	1	35
m,p-Xylenes	0.200	0.1671		mg/Kg		84	70 - 130	3	35
o-Xylene	0.100	0.08181		mg/Kg		82	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-9776-1 MS

Matrix: Solid

Analysis Batch: 15940

Client Sample ID: C-727 2.5'

Prep Type: Total/NA

Prep Batch: 15881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U F1	0.101	0.06410	F1	mg/Kg		63	70 - 130
Toluene	<0.00201	U F1	0.101	0.07526		mg/Kg		75	70 - 130

Eurofins Xenco

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-9776-1 MS

Matrix: Solid

Analysis Batch: 15940

Client Sample ID: C-727 2.5'

Prep Type: Total/NA

Prep Batch: 15881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00201	U	0.101	0.07811		mg/Kg		77	70 - 130
m,p-Xylenes	<0.00402	U	0.202	0.1524		mg/Kg		75	70 - 130
o-Xylene	<0.00201	U	0.101	0.07818		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-9776-1 MSD

Matrix: Solid

Analysis Batch: 15940

Client Sample ID: C-727 2.5'

Prep Type: Total/NA

Prep Batch: 15881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.101	0.05875	F1	mg/Kg		58	70 - 130	9	35
Toluene	<0.00201	U F1	0.101	0.06520	F1	mg/Kg		65	70 - 130	14	35
Ethylbenzene	<0.00201	U	0.101	0.07257		mg/Kg		72	70 - 130	7	35
m,p-Xylenes	<0.00402	U	0.201	0.1434		mg/Kg		71	70 - 130	6	35
o-Xylene	<0.00201	U	0.101	0.07200		mg/Kg		72	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-15946/1-A

Matrix: Solid

Analysis Batch: 15965

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15946

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/22 08:34	01/04/22 10:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/22 08:34	01/04/22 10:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/22 08:34	01/04/22 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	01/04/22 08:34	01/04/22 10:57	1
o-Terphenyl (Surr)	118		70 - 130	01/04/22 08:34	01/04/22 10:57	1

Lab Sample ID: LCS 880-15946/2-A

Matrix: Solid

Analysis Batch: 15965

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	884.9		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	902.4		mg/Kg		90	70 - 130

Eurofins Xenco

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-15946/2-A

Matrix: Solid

Analysis Batch: 15965

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15946

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	94		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-15946/3-A

Matrix: Solid

Analysis Batch: 15965

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15946

	Spike	LCSD	LCSD						%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
Gasoline Range Organics (GRO)-C6-C10	1000	893.6		mg/Kg		89	70 - 130	1	20			
Diesel Range Organics (Over C10-C28)	1000	858.4		mg/Kg		86	70 - 130	5	20			

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	92		70 - 130

Lab Sample ID: 880-9776-1 MS

Matrix: Solid

Analysis Batch: 15965

Client Sample ID: C-727 2.5'

Prep Type: Total/NA

Prep Batch: 15946

	Sample	Sample	Spike	MS	MS				%Rec.			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	987.8		mg/Kg		97	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.9	U	996	998.3		mg/Kg		100	70 - 130			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	107		70 - 130

Lab Sample ID: 880-9776-1 MSD

Matrix: Solid

Analysis Batch: 15965

Client Sample ID: C-727 2.5'

Prep Type: Total/NA

Prep Batch: 15946

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	984.4		mg/Kg		97	70 - 130	0	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1018		mg/Kg		102	70 - 130	2	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	108		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15959/1-A

Matrix: Solid

Analysis Batch: 16111

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/05/22 21:00	1

Lab Sample ID: LCS 880-15959/2-A

Matrix: Solid

Analysis Batch: 16111

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.0		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-15959/3-A

Matrix: Solid

Analysis Batch: 16111

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	246.1		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-9776-1 MS

Matrix: Solid

Analysis Batch: 16111

Client Sample ID: C-727 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	275		250	528.3		mg/Kg		102	90 - 110

Lab Sample ID: 880-9776-1 MSD

Matrix: Solid

Analysis Batch: 16111

Client Sample ID: C-727 2.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	275		250	524.1		mg/Kg		100	90 - 110	1	20

Eurofins Xenco

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

GC VOA

Prep Batch: 15881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9776-1	C-727 2.5'	Total/NA	Solid	5035	
880-9776-2	C-730 4.1'	Total/NA	Solid	5035	
MB 880-15881/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15881/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15881/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9776-1 MS	C-727 2.5'	Total/NA	Solid	5035	
880-9776-1 MSD	C-727 2.5'	Total/NA	Solid	5035	

Analysis Batch: 15940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9776-1	C-727 2.5'	Total/NA	Solid	8021B	15881
880-9776-2	C-730 4.1'	Total/NA	Solid	8021B	15881
MB 880-15881/5-A	Method Blank	Total/NA	Solid	8021B	15881
LCS 880-15881/1-A	Lab Control Sample	Total/NA	Solid	8021B	15881
LCSD 880-15881/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15881
880-9776-1 MS	C-727 2.5'	Total/NA	Solid	8021B	15881
880-9776-1 MSD	C-727 2.5'	Total/NA	Solid	8021B	15881

Analysis Batch: 15997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9776-1	C-727 2.5'	Total/NA	Solid	Total BTEX	
880-9776-2	C-730 4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9776-1	C-727 2.5'	Total/NA	Solid	8015NM Prep	
880-9776-2	C-730 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-15946/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15946/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15946/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9776-1 MS	C-727 2.5'	Total/NA	Solid	8015NM Prep	
880-9776-1 MSD	C-727 2.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9776-1	C-727 2.5'	Total/NA	Solid	8015B NM	15946
880-9776-2	C-730 4.1'	Total/NA	Solid	8015B NM	15946
MB 880-15946/1-A	Method Blank	Total/NA	Solid	8015B NM	15946
LCS 880-15946/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15946
LCSD 880-15946/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15946
880-9776-1 MS	C-727 2.5'	Total/NA	Solid	8015B NM	15946
880-9776-1 MSD	C-727 2.5'	Total/NA	Solid	8015B NM	15946

Analysis Batch: 16174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9776-1	C-727 2.5'	Total/NA	Solid	8015 NM	
880-9776-2	C-730 4.1'	Total/NA	Solid	8015 NM	

Eurofins Xenco

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

HPLC/IC

Leach Batch: 15959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9776-1	C-727 2.5'	Soluble	Solid	DI Leach	
880-9776-2	C-730 4.1'	Soluble	Solid	DI Leach	
MB 880-15959/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15959/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15959/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9776-1 MS	C-727 2.5'	Soluble	Solid	DI Leach	
880-9776-1 MSD	C-727 2.5'	Soluble	Solid	DI Leach	

Analysis Batch: 16111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9776-1	C-727 2.5'	Soluble	Solid	300.0	15959
880-9776-2	C-730 4.1'	Soluble	Solid	300.0	15959
MB 880-15959/1-A	Method Blank	Soluble	Solid	300.0	15959
LCS 880-15959/2-A	Lab Control Sample	Soluble	Solid	300.0	15959
LCSD 880-15959/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15959
880-9776-1 MS	C-727 2.5'	Soluble	Solid	300.0	15959
880-9776-1 MSD	C-727 2.5'	Soluble	Solid	300.0	15959

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Client Sample ID: C-727 2.5'

Lab Sample ID: 880-9776-1

Date Collected: 12/30/21 09:05

Matrix: Solid

Date Received: 01/03/22 14:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	15881	01/03/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15940	01/04/22 13:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15997	01/04/22 14:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15946	01/04/22 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15965	01/04/22 12:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15959	01/05/22 08:48	CA	XEN MID
Soluble	Analysis	300.0		1			16111	01/05/22 21:24	CH	XEN MID

Client Sample ID: C-730 4.1'

Lab Sample ID: 880-9776-2

Date Collected: 12/30/21 10:00

Matrix: Solid

Date Received: 01/03/22 14:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	15881	01/03/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15940	01/04/22 13:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15997	01/04/22 14:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	15946	01/04/22 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15965	01/04/22 13:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	15959	01/05/22 08:48	CA	XEN MID
Soluble	Analysis	300.0		1			16111	01/05/22 21:47	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Laboratory: Eurofins Xenco

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9776-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-9776-1	C-727 2.5'	Solid	12/30/21 09:05	01/03/22 14:14
880-9776-2	C-730 4.1'	Solid	12/30/21 10:00	01/03/22 14:14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-9776-1

Login Number: 9776

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1791-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio Ast

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/11/2022 11:12:48 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Laboratory Job ID: 890-1791-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Job ID: 890-1791-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-1791-1****Receipt**

The samples were received on 1/3/2022 3:03 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16112 and analytical batch 880-16113 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16076 and analytical batch 880-16025 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Client Sample ID: C-1000

Lab Sample ID: 890-1791-1

Date Collected: 01/03/22 10:00

Matrix: Solid

Date Received: 01/03/22 15:03

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		01/06/22 07:32	01/06/22 11:17	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		01/06/22 07:32	01/06/22 11:17	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		01/06/22 07:32	01/06/22 11:17	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398	mg/Kg		01/06/22 07:32	01/06/22 11:17	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		01/06/22 07:32	01/06/22 11:17	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		01/06/22 07:32	01/06/22 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/06/22 07:32	01/06/22 11:17	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/06/22 07:32	01/06/22 11:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/06/22 15:01	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/06/22 15:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/05/22 10:32	01/06/22 04:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/05/22 10:32	01/06/22 04:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/05/22 10:32	01/06/22 04:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	01/05/22 10:32	01/06/22 04:57	1
o-Terphenyl (Surr)	103		70 - 130	01/05/22 10:32	01/06/22 04:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	448		4.97	mg/Kg			01/11/22 02:00	1

Client Sample ID: C-1289

Lab Sample ID: 890-1791-2

Date Collected: 01/03/22 11:30

Matrix: Solid

Date Received: 01/03/22 15:03

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/06/22 07:32	01/06/22 11:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/06/22 07:32	01/06/22 11:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/06/22 07:32	01/06/22 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/06/22 07:32	01/06/22 11:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/06/22 07:32	01/06/22 11:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/06/22 07:32	01/06/22 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/06/22 07:32	01/06/22 11:37	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/06/22 07:32	01/06/22 11:37	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Client Sample ID: C-1289

Lab Sample ID: 890-1791-2

Date Collected: 01/03/22 11:30

Matrix: Solid

Date Received: 01/03/22 15:03

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/06/22 15:01	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/06/22 15:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/05/22 10:32	01/06/22 05:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/05/22 10:32	01/06/22 05:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/05/22 10:32	01/06/22 05:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			01/05/22 10:32	01/06/22 05:17	1
o-Terphenyl (Surr)	105		70 - 130			01/05/22 10:32	01/06/22 05:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	700		4.98	mg/Kg			01/11/22 02:09	1

Client Sample ID: C-983

Lab Sample ID: 890-1791-3

Date Collected: 01/03/22 12:00

Matrix: Solid

Date Received: 01/03/22 15:03

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/06/22 07:32	01/06/22 11:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/06/22 07:32	01/06/22 11:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/06/22 07:32	01/06/22 11:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/06/22 07:32	01/06/22 11:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/06/22 07:32	01/06/22 11:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/06/22 07:32	01/06/22 11:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			01/06/22 07:32	01/06/22 11:58	1
1,4-Difluorobenzene (Surr)	85		70 - 130			01/06/22 07:32	01/06/22 11:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/06/22 15:01	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/06/22 15:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/05/22 10:32	01/06/22 05:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/05/22 10:32	01/06/22 05:37	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Client Sample ID: C-983

Lab Sample ID: 890-1791-3

Date Collected: 01/03/22 12:00

Matrix: Solid

Date Received: 01/03/22 15:03

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/05/22 10:32	01/06/22 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	01/05/22 10:32	01/06/22 05:37	1
o-Terphenyl (Surr)	104		70 - 130	01/05/22 10:32	01/06/22 05:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		5.00	mg/Kg			01/11/22 02:19	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1791-1	C-1000	121	101
890-1791-1 MS	C-1000	141 S1+	123
890-1791-1 MSD	C-1000	103	95
890-1791-2	C-1289	122	105
890-1791-3	C-983	116	85
LCS 880-16112/1-A	Lab Control Sample	120	121
LCSD 880-16112/2-A	Lab Control Sample Dup	128	119
MB 880-16112/5-A	Method Blank	127	130
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-9872-A-1-C MS	Matrix Spike	91	91
880-9872-A-1-D MSD	Matrix Spike Duplicate	99	93
890-1791-1	C-1000	104	103
890-1791-2	C-1289	105	105
890-1791-3	C-983	104	104
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-16076/2-A	Lab Control Sample	88	84
LCSD 880-16076/3-A	Lab Control Sample Dup	92	86
MB 880-16076/1-A	Method Blank	93	83
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16112/5-A

Matrix: Solid

Analysis Batch: 16113

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16112

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/06/22 07:32	01/06/22 10:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/06/22 07:32	01/06/22 10:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/06/22 07:32	01/06/22 10:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/06/22 07:32	01/06/22 10:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/06/22 07:32	01/06/22 10:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/06/22 07:32	01/06/22 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	01/06/22 07:32	01/06/22 10:55	1
1,4-Difluorobenzene (Surr)	130		70 - 130	01/06/22 07:32	01/06/22 10:55	1

Lab Sample ID: LCS 880-16112/1-A

Matrix: Solid

Analysis Batch: 16113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07566		mg/Kg		76	70 - 130
Toluene	0.100	0.07089		mg/Kg		71	70 - 130
Ethylbenzene	0.100	0.07448		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	0.200	0.1541		mg/Kg		77	70 - 130
o-Xylene	0.100	0.07771		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: LCSD 880-16112/2-A

Matrix: Solid

Analysis Batch: 16113

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16112

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08642		mg/Kg		86	70 - 130	13	35
Toluene	0.100	0.08292		mg/Kg		83	70 - 130	16	35
Ethylbenzene	0.100	0.07393		mg/Kg		74	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1777		mg/Kg		89	70 - 130	14	35
o-Xylene	0.100	0.07809		mg/Kg		78	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: 890-1791-1 MS

Matrix: Solid

Analysis Batch: 16113

Client Sample ID: C-1000

Prep Type: Total/NA

Prep Batch: 16112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.101	0.07239		mg/Kg		72	70 - 130
Toluene	<0.00199	U F1	0.101	0.07827		mg/Kg		78	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1791-1 MS

Matrix: Solid

Analysis Batch: 16113

Client Sample ID: C-1000

Prep Type: Total/NA

Prep Batch: 16112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F1	0.101	0.08392		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1733		mg/Kg		86	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.09005		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: 890-1791-1 MSD

Matrix: Solid

Analysis Batch: 16113

Client Sample ID: C-1000

Prep Type: Total/NA

Prep Batch: 16112

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0996	0.05428	F1	mg/Kg		54	70 - 130	29	35
Toluene	<0.00199	U F1	0.0996	0.05563	F1	mg/Kg		56	70 - 130	34	35
Ethylbenzene	<0.00199	U F1	0.0996	0.06280	F1	mg/Kg		63	70 - 130	29	35
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1285	F1	mg/Kg		64	70 - 130	30	35
o-Xylene	<0.00199	U F1	0.0996	0.06740	F1	mg/Kg		68	70 - 130	29	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-16076/1-A

Matrix: Solid

Analysis Batch: 16025

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16076

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/05/22 10:32	01/05/22 21:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/05/22 10:32	01/05/22 21:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/05/22 10:32	01/05/22 21:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	01/05/22 10:32	01/05/22 21:03	1
o-Terphenyl (Surr)	83		70 - 130	01/05/22 10:32	01/05/22 21:03	1

Lab Sample ID: LCS 880-16076/2-A

Matrix: Solid

Analysis Batch: 16025

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	899.1		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	838.4		mg/Kg		84	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-16076/2-A
Matrix: Solid
Analysis Batch: 16025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16076

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-16076/3-A
Matrix: Solid
Analysis Batch: 16025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16076

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	910.4		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	781.0		mg/Kg		78	70 - 130	7	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	86		70 - 130

Lab Sample ID: 880-9872-A-1-C MS
Matrix: Solid
Analysis Batch: 16025

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 16076

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	923.7		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	3960	F1	996	4426	F1	mg/Kg		47	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	91		70 - 130
o-Terphenyl (Surr)	91		70 - 130

Lab Sample ID: 880-9872-A-1-D MSD
Matrix: Solid
Analysis Batch: 16025

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 16076

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	967.6		mg/Kg		95	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	3960	F1	999	4522	F1	mg/Kg		56	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16125/1-A

Matrix: Solid

Analysis Batch: 16253

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/10/22 21:23	1

Lab Sample ID: LCS 880-16125/2-A

Matrix: Solid

Analysis Batch: 16253

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	266.5		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-16125/3-A

Matrix: Solid

Analysis Batch: 16253

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	267.8		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 880-9834-A-2-D MS

Matrix: Solid

Analysis Batch: 16253

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	140	F1	250	419.6	F1	mg/Kg		112	90 - 110

Lab Sample ID: 880-9834-A-2-E MSD

Matrix: Solid

Analysis Batch: 16253

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	140	F1	250	416.5	F1	mg/Kg		111	90 - 110	1	20

Eurofins Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

GC VOA

Prep Batch: 16112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1791-1	C-1000	Total/NA	Solid	5035	
890-1791-2	C-1289	Total/NA	Solid	5035	
890-1791-3	C-983	Total/NA	Solid	5035	
MB 880-16112/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16112/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16112/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1791-1 MS	C-1000	Total/NA	Solid	5035	
890-1791-1 MSD	C-1000	Total/NA	Solid	5035	

Analysis Batch: 16113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1791-1	C-1000	Total/NA	Solid	8021B	16112
890-1791-2	C-1289	Total/NA	Solid	8021B	16112
890-1791-3	C-983	Total/NA	Solid	8021B	16112
MB 880-16112/5-A	Method Blank	Total/NA	Solid	8021B	16112
LCS 880-16112/1-A	Lab Control Sample	Total/NA	Solid	8021B	16112
LCSD 880-16112/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16112
890-1791-1 MS	C-1000	Total/NA	Solid	8021B	16112
890-1791-1 MSD	C-1000	Total/NA	Solid	8021B	16112

Analysis Batch: 16173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1791-1	C-1000	Total/NA	Solid	Total BTEX	
890-1791-2	C-1289	Total/NA	Solid	Total BTEX	
890-1791-3	C-983	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 16025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1791-1	C-1000	Total/NA	Solid	8015B NM	16076
890-1791-2	C-1289	Total/NA	Solid	8015B NM	16076
890-1791-3	C-983	Total/NA	Solid	8015B NM	16076
MB 880-16076/1-A	Method Blank	Total/NA	Solid	8015B NM	16076
LCS 880-16076/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16076
LCSD 880-16076/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16076
880-9872-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	16076
880-9872-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16076

Prep Batch: 16076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1791-1	C-1000	Total/NA	Solid	8015NM Prep	
890-1791-2	C-1289	Total/NA	Solid	8015NM Prep	
890-1791-3	C-983	Total/NA	Solid	8015NM Prep	
MB 880-16076/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16076/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16076/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9872-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9872-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 16174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1791-1	C-1000	Total/NA	Solid	8015 NM	
890-1791-2	C-1289	Total/NA	Solid	8015 NM	
890-1791-3	C-983	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1791-1	C-1000	Soluble	Solid	DI Leach	
890-1791-2	C-1289	Soluble	Solid	DI Leach	
890-1791-3	C-983	Soluble	Solid	DI Leach	
MB 880-16125/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16125/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16125/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9834-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9834-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 16253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1791-1	C-1000	Soluble	Solid	300.0	16125
890-1791-2	C-1289	Soluble	Solid	300.0	16125
890-1791-3	C-983	Soluble	Solid	300.0	16125
MB 880-16125/1-A	Method Blank	Soluble	Solid	300.0	16125
LCS 880-16125/2-A	Lab Control Sample	Soluble	Solid	300.0	16125
LCSD 880-16125/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16125
880-9834-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	16125
880-9834-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	16125

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Client Sample ID: C-1000

Lab Sample ID: 890-1791-1

Date Collected: 01/03/22 10:00

Matrix: Solid

Date Received: 01/03/22 15:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 11:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16173	01/06/22 15:01	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 04:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16125	01/06/22 11:35	CH	XEN MID
Soluble	Analysis	300.0		1			16253	01/11/22 02:00	CH	XEN MID

Client Sample ID: C-1289

Lab Sample ID: 890-1791-2

Date Collected: 01/03/22 11:30

Matrix: Solid

Date Received: 01/03/22 15:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 11:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16173	01/06/22 15:01	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 05:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16125	01/06/22 11:35	CH	XEN MID
Soluble	Analysis	300.0		1			16253	01/11/22 02:09	CH	XEN MID

Client Sample ID: C-983

Lab Sample ID: 890-1791-3

Date Collected: 01/03/22 12:00

Matrix: Solid

Date Received: 01/03/22 15:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 11:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16173	01/06/22 15:01	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 05:37	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16125	01/06/22 11:35	CH	XEN MID
Soluble	Analysis	300.0		1			16253	01/11/22 02:19	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1791-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1791-1	C-1000	Solid	01/03/22 10:00	01/03/22 15:03
890-1791-2	C-1289	Solid	01/03/22 11:30	01/03/22 15:03
890-1791-3	C-983	Solid	01/03/22 12:00	01/03/22 15:03

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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14

Cooling in Progress

No. 2332

CHAIN-OF-CUSTODY

Marson & Associates, Inc.
Environmental Consultants

507 N. Mainfield, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 1-3-22 PAGE 1 OF 1
PO#: LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Palmview Ast
LAI PROJECT #: 21-0105-D2 COLLECTOR: TP

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State

AST/M

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX

TRPH 418.1

TPH 1005

TPH 1006

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PCBS

TCLP - METALS (RCRA)

TCLP - PEST

TOTAL METALS (RCRA)

LEAD - TOTAL

RCI - TOX

TDS

TSS

pH

EXPLOSIVES

CHLORIDES

ANIONS

ALKALINITY

CYANIDE

OTHER LIST

TCLP VOC

TCLP

FLASHPOINT

% MOISTURE

PECHLORATE

FIELD NOTES

C-1000 3.01
C-1289 4.1
C-983 4.1

1-3-22

1000

1130

3

1

X

X

X

X

X

X

X

X

X

X

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X

X

TOTAL 3

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP 19.4/19.2 THERM# T-N-A-057

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP 19.4/19.2 THERM# T-N-A-057

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP 19.4/19.2 THERM# T-N-A-057

LABORATORY

DATE/TIME

RECEIVED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP 19.4/19.2 THERM# T-N-A-057

890-1791 Chain of Custody



Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1791-1

SDG Number: 21-0105-02

Login Number: 1791

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1791-1

SDG Number: 21-0105-02

Login Number: 1791

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/05/22 11:47 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1796-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: PALMIO AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/11/2022 11:12:48 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Laboratory Job ID: 890-1796-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Job ID: 890-1796-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-1796-1****Receipt**

The samples were received on 1/4/2022 3:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 21.2°C

GC VOA

Method Total_BTEX_GCV: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16093 and analytical batch 880-16114 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-16142 and analytical batch 880-16117 recovered outside control limits for the following analytes: <AffectedAnalytes>.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16237 and analytical batch 880-16394 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Client Sample ID: C-1246 1-4'

Lab Sample ID: 890-1796-1

Date Collected: 01/04/22 10:00

Matrix: Solid

Date Received: 01/04/22 15:18

Sample Depth: 1 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/06/22 11:30	01/06/22 15:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/06/22 11:30	01/06/22 15:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/06/22 11:30	01/06/22 15:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/06/22 11:30	01/06/22 15:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/06/22 11:30	01/06/22 15:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/06/22 11:30	01/06/22 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	205	S1+	70 - 130	01/06/22 11:30	01/06/22 15:16	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/06/22 11:30	01/06/22 15:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/07/22 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/10/22 12:40	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/06/22 12:43	01/06/22 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		01/06/22 12:43	01/06/22 19:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/06/22 12:43	01/06/22 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	01/06/22 12:43	01/06/22 19:47	1
o-Terphenyl (Surr)	95		70 - 130	01/06/22 12:43	01/06/22 19:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		4.98	mg/Kg			01/10/22 23:22	1

Client Sample ID: C-1290 4.1

Lab Sample ID: 890-1796-2

Date Collected: 01/04/22 10:05

Matrix: Solid

Date Received: 01/04/22 15:18

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/06/22 11:30	01/06/22 15:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/06/22 11:30	01/06/22 15:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/06/22 11:30	01/06/22 15:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/06/22 11:30	01/06/22 15:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/06/22 11:30	01/06/22 15:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/06/22 11:30	01/06/22 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130	01/06/22 11:30	01/06/22 15:43	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Client Sample ID: C-1290 4.1

Lab Sample ID: 890-1796-2

Date Collected: 01/04/22 10:05

Matrix: Solid

Date Received: 01/04/22 15:18

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	01/06/22 11:30	01/06/22 15:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/07/22 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/10/22 12:40	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/06/22 12:43	01/06/22 20:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		01/06/22 12:43	01/06/22 20:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/06/22 12:43	01/06/22 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			01/06/22 12:43	01/06/22 20:08	1
o-Terphenyl (Surr)	96		70 - 130			01/06/22 12:43	01/06/22 20:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	474		4.98	mg/Kg			01/10/22 23:34	1

Client Sample ID: C-1293 1'

Lab Sample ID: 890-1796-3

Date Collected: 01/04/22 10:08

Matrix: Solid

Date Received: 01/04/22 15:18

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/06/22 11:30	01/06/22 16:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/06/22 11:30	01/06/22 16:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/06/22 11:30	01/06/22 16:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/06/22 11:30	01/06/22 16:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/06/22 11:30	01/06/22 16:24	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/06/22 11:30	01/06/22 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130	01/06/22 11:30	01/06/22 16:24	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/06/22 11:30	01/06/22 16:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/07/22 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/10/22 12:40	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Client Sample ID: C-1293 1'

Lab Sample ID: 890-1796-3

Date Collected: 01/04/22 10:08

Matrix: Solid

Date Received: 01/04/22 15:18

Sample Depth: 1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/06/22 12:43	01/06/22 20:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		01/06/22 12:43	01/06/22 20:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/06/22 12:43	01/06/22 20:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130			01/06/22 12:43	01/06/22 20:30	1
o-Terphenyl (Surr)	85		70 - 130			01/06/22 12:43	01/06/22 20:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	306		5.00	mg/Kg			01/10/22 23:46	1

Client Sample ID: C-1294 1'

Lab Sample ID: 890-1796-4

Date Collected: 01/04/22 10:09

Matrix: Solid

Date Received: 01/04/22 15:18

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/06/22 11:30	01/06/22 16:50	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/06/22 11:30	01/06/22 16:50	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/06/22 11:30	01/06/22 16:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/06/22 11:30	01/06/22 16:50	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/06/22 11:30	01/06/22 16:50	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/06/22 11:30	01/06/22 16:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130			01/06/22 11:30	01/06/22 16:50	1
1,4-Difluorobenzene (Surr)	97		70 - 130			01/06/22 11:30	01/06/22 16:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/07/22 08:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/10/22 12:40	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/06/22 12:43	01/06/22 20:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		01/06/22 12:43	01/06/22 20:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/06/22 12:43	01/06/22 20:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130			01/06/22 12:43	01/06/22 20:51	1
o-Terphenyl (Surr)	80		70 - 130			01/06/22 12:43	01/06/22 20:51	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Client Sample ID: C-1294 1'
Date Collected: 01/04/22 10:09
Date Received: 01/04/22 15:18
Sample Depth: 1

Lab Sample ID: 890-1796-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	175		5.00	mg/Kg			01/10/22 23:58	1	

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)						
890-1796-1	C-1246 1-4'	205 S1+	107						
890-1796-2	C-1290 4.1	175 S1+	87						
890-1796-3	C-1293 1'	182 S1+	91						
890-1796-4	C-1294 1'	158 S1+	97						

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: Total BTEX - Total BTEX Calculation

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DFBZ						
880-9879-A-1-B MS	Matrix Spike								
880-9879-A-1-C MSD	Matrix Spike Duplicate								
LCS 880-16093/1-A	Lab Control Sample								
LCSD 880-16093/2-A	Lab Control Sample Dup								
MB 880-16093/5-A	Method Blank								

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)						
890-1796-1	C-1246 1-4'	81	95						
890-1796-2	C-1290 4.1	80	96						
890-1796-3	C-1293 1'	73	85						
890-1796-4	C-1294 1'	74	80						
890-1797-A-1-F MS	Matrix Spike	77	83						
890-1797-A-1-G MSD	Matrix Spike Duplicate	77	81						
LCS 880-16142/2-A	Lab Control Sample	104	107						
LCSD 880-16142/3-A	Lab Control Sample Dup	110	119						
MB 880-16142/1-A	Method Blank	74	85						

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Method: Total BTEX - Total BTEX Calculation

Lab Sample ID: LCS 880-16093/1-A

Matrix: Solid

Analysis Batch: 16114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16093

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene (Surr)			
4-Bromofluorobenzene (Surr)			

Lab Sample ID: LCSD 880-16093/2-A

Matrix: Solid

Analysis Batch: 16114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16093

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)			
4-Bromofluorobenzene (Surr)			

Lab Sample ID: 880-9879-A-1-B MS

Matrix: Solid

Analysis Batch: 16114

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16093

Surrogate	MS %Recovery	MS Qualifier	Limits
1,4-Difluorobenzene (Surr)			
4-Bromofluorobenzene (Surr)			

Lab Sample ID: 880-9879-A-1-C MSD

Matrix: Solid

Analysis Batch: 16114

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16093

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,4-Difluorobenzene (Surr)			
4-Bromofluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-16142/1-A

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16142

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/06/22 12:43	01/06/22 15:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/06/22 12:43	01/06/22 15:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/06/22 12:43	01/06/22 15:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130			01/06/22 12:43	01/06/22 15:37	1
o-Terphenyl (Surr)	85		70 - 130			01/06/22 12:43	01/06/22 15:37	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-16142/2-A

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16142

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	773.3		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	895.8		mg/Kg		90	70 - 130		

Lab Sample ID: LCSD 880-16142/3-A

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16142

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	917.7		mg/Kg		92	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	1151	*1	mg/Kg		115	70 - 130	25	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	110		70 - 130								
o-Terphenyl (Surr)	119		70 - 130								

Lab Sample ID: 890-1797-A-1-F MS

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16142

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	735.3		mg/Kg		74	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *1	996	897.9		mg/Kg		87	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	77		70 - 130								
o-Terphenyl (Surr)	83		70 - 130								

Lab Sample ID: 890-1797-A-1-G MSD

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16142

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	766.8		mg/Kg		77	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1	999	884.4		mg/Kg		85	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	77		70 - 130								

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1797-A-1-G MSD

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16142

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	81		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16237/1-A

Matrix: Solid

Analysis Batch: 16394

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			01/10/22 18:38		1

Lab Sample ID: LCS 880-16237/2-A

Matrix: Solid

Analysis Batch: 16394

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride			250	258.5		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-16237/3-A

Matrix: Solid

Analysis Batch: 16394

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	259.5		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-9939-A-7-B MS

Matrix: Solid

Analysis Batch: 16394

Client Sample ID: Matrix Spike

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	34.4	F1	248	330.7	F1	mg/Kg		120	90 - 110

Lab Sample ID: 880-9939-A-7-C MSD

Matrix: Solid

Analysis Batch: 16394

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	34.4	F1	252	314.2	F1	mg/Kg		111	90 - 110	5	20

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

GC VOA

Prep Batch: 16093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1796-1	C-1246 1-4'	Total/NA	Solid	5035	
890-1796-2	C-1290 4.1	Total/NA	Solid	5035	
890-1796-3	C-1293 1'	Total/NA	Solid	5035	
890-1796-4	C-1294 1'	Total/NA	Solid	5035	
MB 880-16093/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16093/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16093/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9879-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-9879-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1796-1	C-1246 1-4'	Total/NA	Solid	8021B	16093
890-1796-2	C-1290 4.1	Total/NA	Solid	8021B	16093
890-1796-3	C-1293 1'	Total/NA	Solid	8021B	16093
890-1796-4	C-1294 1'	Total/NA	Solid	8021B	16093
MB 880-16093/5-A	Method Blank	Total/NA	Solid	Total BTEX	16093
LCS 880-16093/1-A	Lab Control Sample	Total/NA	Solid	Total BTEX	16093
LCSD 880-16093/2-A	Lab Control Sample Dup	Total/NA	Solid	Total BTEX	16093
880-9879-A-1-B MS	Matrix Spike	Total/NA	Solid	Total BTEX	16093
880-9879-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	Total BTEX	16093

Analysis Batch: 16207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1796-1	C-1246 1-4'	Total/NA	Solid	Total BTEX	
890-1796-2	C-1290 4.1	Total/NA	Solid	Total BTEX	
890-1796-3	C-1293 1'	Total/NA	Solid	Total BTEX	
890-1796-4	C-1294 1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 16117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1796-1	C-1246 1-4'	Total/NA	Solid	8015B NM	16142
890-1796-2	C-1290 4.1	Total/NA	Solid	8015B NM	16142
890-1796-3	C-1293 1'	Total/NA	Solid	8015B NM	16142
890-1796-4	C-1294 1'	Total/NA	Solid	8015B NM	16142
MB 880-16142/1-A	Method Blank	Total/NA	Solid	8015B NM	16142
LCS 880-16142/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16142
LCSD 880-16142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16142
890-1797-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	16142
890-1797-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16142

Prep Batch: 16142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1796-1	C-1246 1-4'	Total/NA	Solid	8015NM Prep	
890-1796-2	C-1290 4.1	Total/NA	Solid	8015NM Prep	
890-1796-3	C-1293 1'	Total/NA	Solid	8015NM Prep	
890-1796-4	C-1294 1'	Total/NA	Solid	8015NM Prep	
MB 880-16142/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16142/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 16142 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-16142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1797-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1797-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1796-1	C-1246 1-4'	Total/NA	Solid	8015 NM	
890-1796-2	C-1290 4.1	Total/NA	Solid	8015 NM	
890-1796-3	C-1293 1'	Total/NA	Solid	8015 NM	
890-1796-4	C-1294 1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1796-1	C-1246 1-4'	Soluble	Solid	DI Leach	
890-1796-2	C-1290 4.1	Soluble	Solid	DI Leach	
890-1796-3	C-1293 1'	Soluble	Solid	DI Leach	
890-1796-4	C-1294 1'	Soluble	Solid	DI Leach	
MB 880-16237/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16237/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16237/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9939-A-7-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9939-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 16394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1796-1	C-1246 1-4'	Soluble	Solid	300.0	16237
890-1796-2	C-1290 4.1	Soluble	Solid	300.0	16237
890-1796-3	C-1293 1'	Soluble	Solid	300.0	16237
890-1796-4	C-1294 1'	Soluble	Solid	300.0	16237
MB 880-16237/1-A	Method Blank	Soluble	Solid	300.0	16237
LCS 880-16237/2-A	Lab Control Sample	Soluble	Solid	300.0	16237
LCSD 880-16237/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16237
880-9939-A-7-B MS	Matrix Spike	Soluble	Solid	300.0	16237
880-9939-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	16237

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Client Sample ID: C-1246 1-4'

Lab Sample ID: 890-1796-1

Date Collected: 01/04/22 10:00

Matrix: Solid

Date Received: 01/04/22 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	16093	01/06/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16114	01/06/22 15:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16207	01/07/22 08:42	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16142	01/06/22 12:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/06/22 19:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16237	01/07/22 10:25	CH	XEN MID
Soluble	Analysis	300.0		1			16394	01/10/22 23:22	CH	XEN MID

Client Sample ID: C-1290 4.1

Lab Sample ID: 890-1796-2

Date Collected: 01/04/22 10:05

Matrix: Solid

Date Received: 01/04/22 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	16093	01/06/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16114	01/06/22 15:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16207	01/07/22 08:42	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16142	01/06/22 12:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/06/22 20:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16237	01/07/22 10:25	CH	XEN MID
Soluble	Analysis	300.0		1			16394	01/10/22 23:34	CH	XEN MID

Client Sample ID: C-1293 1'

Lab Sample ID: 890-1796-3

Date Collected: 01/04/22 10:08

Matrix: Solid

Date Received: 01/04/22 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16093	01/06/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16114	01/06/22 16:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16207	01/07/22 08:42	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16142	01/06/22 12:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/06/22 20:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16237	01/07/22 10:25	CH	XEN MID
Soluble	Analysis	300.0		1			16394	01/10/22 23:46	CH	XEN MID

Client Sample ID: C-1294 1'

Lab Sample ID: 890-1796-4

Date Collected: 01/04/22 10:09

Matrix: Solid

Date Received: 01/04/22 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16093	01/06/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16114	01/06/22 16:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16207	01/07/22 08:42	KL	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Client Sample ID: C-1294 1'
Date Collected: 01/04/22 10:09
Date Received: 01/04/22 15:18

Lab Sample ID: 890-1796-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16142	01/06/22 12:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/06/22 20:51	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16237	01/07/22 10:25	CH	XEN MID
Soluble	Analysis	300.0		1			16394	01/10/22 23:58	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

- 1
- 2
- 3
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- 5
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- 7
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- 10
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- 14

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
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- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1796-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1796-1	C-1246 1-4'	Solid	01/04/22 10:00	01/04/22 15:18	1 - 4
890-1796-2	C-1290 4.1	Solid	01/04/22 10:05	01/04/22 15:18	4.1
890-1796-3	C-1293 1'	Solid	01/04/22 10:08	01/04/22 15:18	1
890-1796-4	C-1294 1'	Solid	01/04/22 10:09	01/04/22 15:18	1

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[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1796-1

SDG Number: 21-0105-02

Login Number: 1796

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1796-1

SDG Number: 21-0105-02

Login Number: 1796

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/06/22 11:57 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1799-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: PALMIO AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/11/2022 12:42:17 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Laboratory Job ID: 890-1799-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Job ID: 890-1799-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-1799-1**

Receipt

The samples were received on 1/5/2022 3:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.4°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16240 and analytical batch 880-16263 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16273 and analytical batch 880-16341 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16237 and analytical batch 880-16394 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Client Sample ID: C-1291 4.1

Lab Sample ID: 890-1799-1

Date Collected: 01/05/22 10:00

Matrix: Solid

Date Received: 01/05/22 15:02

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/07/22 08:00	01/07/22 21:04	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/07/22 08:00	01/07/22 21:04	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/07/22 08:00	01/07/22 21:04	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/07/22 08:00	01/07/22 21:04	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/07/22 08:00	01/07/22 21:04	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/07/22 08:00	01/07/22 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/07/22 08:00	01/07/22 21:04	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/07/22 08:00	01/07/22 21:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/10/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/10/22 12:40	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/07/22 08:54	01/07/22 13:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/07/22 08:54	01/07/22 13:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/07/22 08:54	01/07/22 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	01/07/22 08:54	01/07/22 13:23	1
o-Terphenyl (Surr)	93		70 - 130	01/07/22 08:54	01/07/22 13:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	598		5.00	mg/Kg			01/11/22 00:10	1

Client Sample ID: C-1292 4.1

Lab Sample ID: 890-1799-2

Date Collected: 01/05/22 10:01

Matrix: Solid

Date Received: 01/05/22 15:02

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202	mg/Kg		01/07/22 14:21	01/10/22 11:19	1
Toluene	<0.00202	U F1	0.00202	mg/Kg		01/07/22 14:21	01/10/22 11:19	1
Ethylbenzene	<0.00202	U F1	0.00202	mg/Kg		01/07/22 14:21	01/10/22 11:19	1
m-Xylene & p-Xylene	<0.00403	U F1	0.00403	mg/Kg		01/07/22 14:21	01/10/22 11:19	1
o-Xylene	<0.00202	U F1	0.00202	mg/Kg		01/07/22 14:21	01/10/22 11:19	1
Xylenes, Total	<0.00403	U F1	0.00403	mg/Kg		01/07/22 14:21	01/10/22 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	01/07/22 14:21	01/10/22 11:19	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Client Sample ID: C-1292 4.1

Lab Sample ID: 890-1799-2

Date Collected: 01/05/22 10:01

Matrix: Solid

Date Received: 01/05/22 15:02

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	01/07/22 14:21	01/10/22 11:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/10/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/10/22 12:40	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/07/22 08:54	01/07/22 13:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/07/22 08:54	01/07/22 13:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/07/22 08:54	01/07/22 13:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			01/07/22 08:54	01/07/22 13:44	1
o-Terphenyl (Surr)	100		70 - 130			01/07/22 08:54	01/07/22 13:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	622		5.04	mg/Kg			01/11/22 00:22	1

Client Sample ID: C-991 4.1

Lab Sample ID: 890-1799-3

Date Collected: 01/05/22 14:00

Matrix: Solid

Date Received: 01/05/22 15:02

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/07/22 11:54	01/08/22 22:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/07/22 11:54	01/08/22 22:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/07/22 11:54	01/08/22 22:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/07/22 11:54	01/08/22 22:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/07/22 11:54	01/08/22 22:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/07/22 11:54	01/08/22 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	264	S1+	70 - 130	01/07/22 11:54	01/08/22 22:08	1
1,4-Difluorobenzene (Surr)	120		70 - 130	01/07/22 11:54	01/08/22 22:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/10/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/10/22 12:40	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Client Sample ID: C-991 4.1

Lab Sample ID: 890-1799-3

Date Collected: 01/05/22 14:00

Matrix: Solid

Date Received: 01/05/22 15:02

Sample Depth: 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/07/22 08:54	01/07/22 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/07/22 08:54	01/07/22 14:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/07/22 08:54	01/07/22 14:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			01/07/22 08:54	01/07/22 14:24	1
o-Terphenyl (Surr)	108		70 - 130			01/07/22 08:54	01/07/22 14:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	781		4.97	mg/Kg			01/11/22 00:33	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9941-A-61-G MS	Matrix Spike	249 S1+	86
880-9941-A-61-H MSD	Matrix Spike Duplicate	206 S1+	134 S1+
890-1799-1	C-1291 4.1	109	102
890-1799-2	C-1292 4.1	111	97
890-1799-2 MS	C-1292 4.1	119	91
890-1799-3	C-991 4.1	264 S1+	120
890-1806-A-1-A MS	Matrix Spike	102	108
890-1806-A-1-B MSD	Matrix Spike Duplicate	97	101
LCS 880-16162/1-A	Lab Control Sample	99	99
LCS 880-16240/1-A	Lab Control Sample	252 S1+	140 S1+
LCS 880-16273/1-A	Lab Control Sample	101	91
LCSD 880-16162/2-A	Lab Control Sample Dup	100	92
LCSD 880-16240/2-A	Lab Control Sample Dup	227 S1+	136 S1+
LCSD 880-16273/2-A	Lab Control Sample Dup	105	96
MB 880-16162/5-A	Method Blank	109	105
MB 880-16240/5-A	Method Blank	139 S1+	112
MB 880-16263/39	Method Blank	138 S1+	106
MB 880-16273/5-A	Method Blank	120	108
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
890-1799-2 MSD	C-1292 4.1		
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-9941-A-63-C MS	Matrix Spike	81	74
880-9941-A-63-D MSD	Matrix Spike Duplicate	81	76
890-1799-1	C-1291 4.1	89	93
890-1799-2	C-1292 4.1	95	100
890-1799-3	C-991 4.1	103	108
LCS 880-16212/2-A	Lab Control Sample	120	116
LCSD 880-16212/3-A	Lab Control Sample Dup	114	109
MB 880-16212/1-A	Method Blank	89	93
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			

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Surrogate Summary

Client: Larson & Associates, Inc.

Project/Site: PALMIO AST

OTPH = o-Terphenyl (Surr)

Job ID: 890-1799-1

SDG: 21-0105-02

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16162/5-A

Matrix: Solid

Analysis Batch: 16203

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16162

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/07/22 08:00	01/07/22 13:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/07/22 08:00	01/07/22 13:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/07/22 08:00	01/07/22 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/07/22 08:00	01/07/22 13:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/07/22 08:00	01/07/22 13:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/07/22 08:00	01/07/22 13:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/07/22 08:00	01/07/22 13:13	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/07/22 08:00	01/07/22 13:13	1

Lab Sample ID: LCS 880-16162/1-A

Matrix: Solid

Analysis Batch: 16203

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09372		mg/Kg		94	70 - 130
Toluene	0.100	0.08444		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08430		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1763		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08514		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-16162/2-A

Matrix: Solid

Analysis Batch: 16203

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16162

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09237		mg/Kg		92	70 - 130	1	35
Toluene	0.100	0.08810		mg/Kg		88	70 - 130	4	35
Ethylbenzene	0.100	0.08612		mg/Kg		86	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1791		mg/Kg		90	70 - 130	2	35
o-Xylene	0.100	0.08656		mg/Kg		87	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-1806-A-1-A MS

Matrix: Solid

Analysis Batch: 16203

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0994	0.1030		mg/Kg		104	70 - 130
Toluene	<0.00200	U	0.0994	0.09423		mg/Kg		95	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1806-A-1-A MS

Matrix: Solid

Analysis Batch: 16203

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.0994	0.09378		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1944		mg/Kg		98	70 - 130
o-Xylene	<0.00200	U	0.0994	0.09444		mg/Kg		95	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-1806-A-1-B MSD

Matrix: Solid

Analysis Batch: 16203

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16162

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.09825		mg/Kg		99	70 - 130	5	35
Toluene	<0.00200	U	0.0996	0.09048		mg/Kg		91	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0996	0.08758		mg/Kg		88	70 - 130	7	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1817		mg/Kg		91	70 - 130	7	35
o-Xylene	<0.00200	U	0.0996	0.08992		mg/Kg		90	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-16240/5-A

Matrix: Solid

Analysis Batch: 16263

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16240

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/07/22 11:54	01/08/22 20:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/07/22 11:54	01/08/22 20:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/07/22 11:54	01/08/22 20:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/07/22 11:54	01/08/22 20:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/07/22 11:54	01/08/22 20:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/07/22 11:54	01/08/22 20:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	01/07/22 11:54	01/08/22 20:23	1
1,4-Difluorobenzene (Surr)	112		70 - 130	01/07/22 11:54	01/08/22 20:23	1

Lab Sample ID: LCS 880-16240/1-A

Matrix: Solid

Analysis Batch: 16263

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1237		mg/Kg		124	70 - 130
Toluene	0.100	0.1229		mg/Kg		123	70 - 130
Ethylbenzene	0.100	0.1213		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	0.200	0.2463		mg/Kg		123	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-16240/1-A

Matrix: Solid

Analysis Batch: 16263

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.1210		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	252	S1+	70 - 130
1,4-Difluorobenzene (Surr)	140	S1+	70 - 130

Lab Sample ID: LCSD 880-16240/2-A

Matrix: Solid

Analysis Batch: 16263

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16240

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1032		mg/Kg		103	70 - 130	18	35
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	19	35
Ethylbenzene	0.100	0.09986		mg/Kg		100	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.2020		mg/Kg		101	70 - 130	20	35
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	227	S1+	70 - 130
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130

Lab Sample ID: 880-9941-A-61-G MS

Matrix: Solid

Analysis Batch: 16263

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0990	0.03153	F1	mg/Kg		32	70 - 130
Toluene	<0.00199	U F1	0.0990	0.03471	F1	mg/Kg		35	70 - 130
Ethylbenzene	<0.00199	U F1	0.0990	0.05498	F1	mg/Kg		56	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.1044	F1	mg/Kg		53	70 - 130
o-Xylene	<0.00199	U F1	0.0990	0.03710	F1	mg/Kg		37	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	249	S1+	70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-9941-A-61-H MSD

Matrix: Solid

Analysis Batch: 16263

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.03736	F1	mg/Kg		37	70 - 130	17	35
Toluene	<0.00199	U F1	0.100	0.04148	F1	mg/Kg		41	70 - 130	18	35
Ethylbenzene	<0.00199	U F1	0.100	0.04581	F1	mg/Kg		46	70 - 130	18	35
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.09433	F1	mg/Kg		47	70 - 130	10	35
o-Xylene	<0.00199	U F1	0.100	0.04957	F1	mg/Kg		49	70 - 130	29	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-9941-A-61-H MSD

Matrix: Solid

Analysis Batch: 16263

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16240

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	206	S1+	70 - 130
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130

Lab Sample ID: MB 880-16263/39

Matrix: Solid

Analysis Batch: 16263

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg			01/08/22 06:41	1	
Toluene	<0.00200	U	0.00200	mg/Kg			01/08/22 06:41	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			01/08/22 06:41	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			01/08/22 06:41	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg			01/08/22 06:41	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			01/08/22 06:41	1	
Surrogate	MB	MB				Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				01/08/22 06:41	1	
1,4-Difluorobenzene (Surr)	106		70 - 130				01/08/22 06:41	1	

Lab Sample ID: MB 880-16273/5-A

Matrix: Solid

Analysis Batch: 16341

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16273

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/07/22 14:21	01/10/22 10:50	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/07/22 14:21	01/10/22 10:50	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/07/22 14:21	01/10/22 10:50	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/07/22 14:21	01/10/22 10:50	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/07/22 14:21	01/10/22 10:50	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/07/22 14:21	01/10/22 10:50	1	
Surrogate	MB	MB				Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	120		70 - 130			01/07/22 14:21	01/10/22 10:50	1	
1,4-Difluorobenzene (Surr)	108		70 - 130			01/07/22 14:21	01/10/22 10:50	1	

Lab Sample ID: LCS 880-16273/1-A

Matrix: Solid

Analysis Batch: 16341

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16273

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	
Benzene	0.100	0.08151		mg/Kg		82		70 - 130	
Toluene	0.100	0.09588		mg/Kg		96		70 - 130	
Ethylbenzene	0.100	0.09731		mg/Kg		97		70 - 130	
m-Xylene & p-Xylene	0.200	0.1896		mg/Kg		95		70 - 130	
o-Xylene	0.100	0.09479		mg/Kg		95		70 - 130	

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-16273/1-A

Matrix: Solid

Analysis Batch: 16341

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16273

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-16273/2-A

Matrix: Solid

Analysis Batch: 16341

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16273

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09529		mg/Kg		95	70 - 130	16	35
Toluene	0.100	0.09785		mg/Kg		98	70 - 130	2	35
Ethylbenzene	0.100	0.09925		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1988		mg/Kg		99	70 - 130	5	35
o-Xylene	0.100	0.09916		mg/Kg		99	70 - 130	5	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-1799-2 MS

Matrix: Solid

Analysis Batch: 16341

Client Sample ID: C-1292 4.1

Prep Type: Total/NA

Prep Batch: 16273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1	0.101	0.006701	F1	mg/Kg		7	70 - 130
Toluene	<0.00202	U F1	0.101	0.006686	F1	mg/Kg		7	70 - 130
Ethylbenzene	<0.00202	U F1	0.101	0.01593	F1	mg/Kg		16	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1	0.202	0.01584	F1	mg/Kg		8	70 - 130
o-Xylene	<0.00202	U F1	0.101	0.01351	F1	mg/Kg		13	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-1799-2 MSD

Matrix: Solid

Analysis Batch: 16341

Client Sample ID: C-1292 4.1

Prep Type: Total/NA

Prep Batch: 16273

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.100	0.02359		mg/Kg					
Toluene	<0.00202	U F1	0.100	0.02568		mg/Kg					
Ethylbenzene	<0.00202	U F1	0.100	0.02942		mg/Kg					
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.03270		mg/Kg					
o-Xylene	<0.00202	U F1	0.100	0.03210		mg/Kg					

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-16212/1-A

Matrix: Solid

Analysis Batch: 16217

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16212

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/07/22 08:54	01/07/22 11:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/07/22 08:54	01/07/22 11:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/07/22 08:54	01/07/22 11:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			01/07/22 08:54	01/07/22 11:13	1
o-Terphenyl (Surr)	93		70 - 130			01/07/22 08:54	01/07/22 11:13	1

Lab Sample ID: LCS 880-16212/2-A

Matrix: Solid

Analysis Batch: 16217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	891.2		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1013		mg/Kg		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	120		70 - 130				
o-Terphenyl (Surr)	116		70 - 130				

Lab Sample ID: LCSD 880-16212/3-A

Matrix: Solid

Analysis Batch: 16217

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16212

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	881.7		mg/Kg		88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	989.3		mg/Kg		99	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	114		70 - 130						
o-Terphenyl (Surr)	109		70 - 130						

Lab Sample ID: 880-9941-A-63-C MS

Matrix: Solid

Analysis Batch: 16217

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	911.9		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	953.9		mg/Kg		93	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-9941-A-63-C MS

Matrix: Solid

Analysis Batch: 16217

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16212

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	81		70 - 130
o-Terphenyl (Surr)	74		70 - 130

Lab Sample ID: 880-9941-A-63-D MSD

Matrix: Solid

Analysis Batch: 16217

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16212

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	892.8		mg/Kg		86	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	978.6		mg/Kg		95	70 - 130	3	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	81		70 - 130
o-Terphenyl (Surr)	76		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16237/1-A

Matrix: Solid

Analysis Batch: 16394

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			01/10/22 18:38	1		

Lab Sample ID: LCS 880-16237/2-A

Matrix: Solid

Analysis Batch: 16394

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	258.5		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-16237/3-A

Matrix: Solid

Analysis Batch: 16394

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	259.5		mg/Kg		104	90 - 110	0	20	

Lab Sample ID: 880-9939-A-7-B MS

Matrix: Solid

Analysis Batch: 16394

Client Sample ID: Matrix Spike

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	34.4	F1	248	330.7	F1	mg/Kg		120	90 - 110		

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-9939-A-7-C MSD					Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 16394												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	34.4	F1	252	314.2	F1	mg/Kg		111	90 - 110	5	20	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

GC VOA

Prep Batch: 16162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-1	C-1291 4.1	Total/NA	Solid	5035	
MB 880-16162/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16162/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16162/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1806-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-1806-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-1	C-1291 4.1	Total/NA	Solid	8021B	16162
MB 880-16162/5-A	Method Blank	Total/NA	Solid	8021B	16162
LCS 880-16162/1-A	Lab Control Sample	Total/NA	Solid	8021B	16162
LCSD 880-16162/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16162
890-1806-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	16162
890-1806-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16162

Prep Batch: 16240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-3	C-991 4.1	Total/NA	Solid	5035	
MB 880-16240/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16240/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16240/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9941-A-61-G MS	Matrix Spike	Total/NA	Solid	5035	
880-9941-A-61-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-3	C-991 4.1	Total/NA	Solid	8021B	16240
MB 880-16240/5-A	Method Blank	Total/NA	Solid	8021B	16240
MB 880-16263/39	Method Blank	Total/NA	Solid	8021B	
LCS 880-16240/1-A	Lab Control Sample	Total/NA	Solid	8021B	16240
LCSD 880-16240/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16240
880-9941-A-61-G MS	Matrix Spike	Total/NA	Solid	8021B	16240
880-9941-A-61-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16240

Prep Batch: 16273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-2	C-1292 4.1	Total/NA	Solid	5035	
MB 880-16273/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16273/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16273/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1799-2 MS	C-1292 4.1	Total/NA	Solid	5035	
890-1799-2 MSD	C-1292 4.1	Total/NA	Solid	5035	

Analysis Batch: 16341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-2	C-1292 4.1	Total/NA	Solid	8021B	16273
MB 880-16273/5-A	Method Blank	Total/NA	Solid	8021B	16273
LCS 880-16273/1-A	Lab Control Sample	Total/NA	Solid	8021B	16273
LCSD 880-16273/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16273
890-1799-2 MS	C-1292 4.1	Total/NA	Solid	8021B	16273

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 16341 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-2 MSD	C-1292 4.1	Total/NA	Solid	8021B	16273

Analysis Batch: 16426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-1	C-1291 4.1	Total/NA	Solid	Total BTEX	
890-1799-2	C-1292 4.1	Total/NA	Solid	Total BTEX	
890-1799-3	C-991 4.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 16212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-1	C-1291 4.1	Total/NA	Solid	8015NM Prep	
890-1799-2	C-1292 4.1	Total/NA	Solid	8015NM Prep	
890-1799-3	C-991 4.1	Total/NA	Solid	8015NM Prep	
MB 880-16212/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16212/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16212/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9941-A-63-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9941-A-63-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-1	C-1291 4.1	Total/NA	Solid	8015B NM	16212
890-1799-2	C-1292 4.1	Total/NA	Solid	8015B NM	16212
890-1799-3	C-991 4.1	Total/NA	Solid	8015B NM	16212
MB 880-16212/1-A	Method Blank	Total/NA	Solid	8015B NM	16212
LCS 880-16212/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16212
LCSD 880-16212/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16212
880-9941-A-63-C MS	Matrix Spike	Total/NA	Solid	8015B NM	16212
880-9941-A-63-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16212

Analysis Batch: 16428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-1	C-1291 4.1	Total/NA	Solid	8015 NM	
890-1799-2	C-1292 4.1	Total/NA	Solid	8015 NM	
890-1799-3	C-991 4.1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-1	C-1291 4.1	Soluble	Solid	DI Leach	
890-1799-2	C-1292 4.1	Soluble	Solid	DI Leach	
890-1799-3	C-991 4.1	Soluble	Solid	DI Leach	
MB 880-16237/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16237/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16237/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9939-A-7-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9939-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 16394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1799-1	C-1291 4.1	Soluble	Solid	300.0	16237
890-1799-2	C-1292 4.1	Soluble	Solid	300.0	16237
890-1799-3	C-991 4.1	Soluble	Solid	300.0	16237
MB 880-16237/1-A	Method Blank	Soluble	Solid	300.0	16237
LCS 880-16237/2-A	Lab Control Sample	Soluble	Solid	300.0	16237
LCSD 880-16237/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16237
880-9939-A-7-B MS	Matrix Spike	Soluble	Solid	300.0	16237
880-9939-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	16237

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Client Sample ID: C-1291 4.1

Lab Sample ID: 890-1799-1

Date Collected: 01/05/22 10:00

Matrix: Solid

Date Received: 01/05/22 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16162	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16203	01/07/22 21:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16212	01/07/22 08:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16217	01/07/22 13:23	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16237	01/07/22 10:25	CH	XEN MID
Soluble	Analysis	300.0		1			16394	01/11/22 00:10	CH	XEN MID

Client Sample ID: C-1292 4.1

Lab Sample ID: 890-1799-2

Date Collected: 01/05/22 10:01

Matrix: Solid

Date Received: 01/05/22 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16273	01/07/22 14:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16341	01/10/22 11:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16212	01/07/22 08:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16217	01/07/22 13:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16237	01/07/22 10:25	CH	XEN MID
Soluble	Analysis	300.0		1			16394	01/11/22 00:22	CH	XEN MID

Client Sample ID: C-991 4.1

Lab Sample ID: 890-1799-3

Date Collected: 01/05/22 14:00

Matrix: Solid

Date Received: 01/05/22 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	16240	01/07/22 11:54	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16263	01/08/22 22:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16212	01/07/22 08:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16217	01/07/22 14:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16237	01/07/22 10:25	CH	XEN MID
Soluble	Analysis	300.0		1			16394	01/11/22 00:33	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1799-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1799-1	C-1291 4.1	Solid	01/05/22 10:00	01/05/22 15:02	4.1
890-1799-2	C-1292 4.1	Solid	01/05/22 10:01	01/05/22 15:02	4.1
890-1799-3	C-991 4.1	Solid	01/05/22 14:00	01/05/22 15:02	4.1

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Varson & Associates, Inc.
Environmental Consultants



890-1799 Chain of Custody

Cooling in progress

CHAIN-OF-CUSTODY

No. 2334

DATE: 1-5-22

PAGE 1 OF 1

PO#:

LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Balme Ast

LAI PROJECT #: 21-0105-02

COLLECTOR: TP

Data Reported to

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State
MST/MA

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄

NaOH

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX

TPH 418.1

TPH 1005

TPH 1006

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PESTICIDES

TCLP - METALS (RCRA)

TCLP - PEST

TOTAL METALS (RCRA)

LEAD - TOTAL

RCI

TDS

TOX

PH

% MOISTURE

CYANIDE

EXPLOSIVES

PECHLORATE

CHLORIDE ANIONS

ALKALINITY

FIELD NOTES

TOTAL 3

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY

RECEIVING TEMP

THERM#

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

NORMAL

CUSTODY SEALS

BROKEN

INTACT

NOT USED

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

2 DAY

CARRIER BILL #

STANDARD DELIVERED

LABORATORY XENCO

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1799-1

SDG Number: 21-0105-02

Login Number: 1799

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1799-1

SDG Number: 21-0105-02

Login Number: 1799

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/07/22 12:52 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1808-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio Ast

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in cursive script that reads "Holly Taylor".

Authorized for release by:
1/14/2022 1:12:39 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Laboratory Job ID: 890-1808-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Job ID: 890-1808-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-1808-1****Receipt**

The samples were received on 1/6/2022 3:17 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 17.8°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16424 and analytical batch 880-16336 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16432 and 880-16432 and analytical batch 880-16543 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Client Sample ID: C-1251 1-4.1'

Lab Sample ID: 890-1808-1

Date Collected: 01/06/22 08:21

Matrix: Solid

Date Received: 01/06/22 15:17

Sample Depth: 1 - 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/11/22 07:30	01/11/22 11:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/11/22 07:30	01/11/22 11:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/11/22 07:30	01/11/22 11:25	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/11/22 07:30	01/11/22 11:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/11/22 07:30	01/11/22 11:25	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/11/22 07:30	01/11/22 11:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	01/11/22 07:30	01/11/22 11:25	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/11/22 07:30	01/11/22 11:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/12/22 12:57	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/11/22 14:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/10/22 11:18	01/10/22 21:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/10/22 11:18	01/10/22 21:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/10/22 11:18	01/10/22 21:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	01/10/22 11:18	01/10/22 21:40	1
o-Terphenyl (Surr)	90		70 - 130	01/10/22 11:18	01/10/22 21:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		4.97	mg/Kg			01/14/22 00:28	1

Client Sample ID: C-1255 1-4.1'

Lab Sample ID: 890-1808-2

Date Collected: 01/06/22 12:50

Matrix: Solid

Date Received: 01/06/22 15:17

Sample Depth: 1 - 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/11/22 07:30	01/11/22 11:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/11/22 07:30	01/11/22 11:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/11/22 07:30	01/11/22 11:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/11/22 07:30	01/11/22 11:45	1
o-Xylene	0.00201		0.00199	mg/Kg		01/11/22 07:30	01/11/22 11:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/11/22 07:30	01/11/22 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/11/22 07:30	01/11/22 11:45	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Client Sample ID: C-1255 1-4.1'

Lab Sample ID: 890-1808-2

Date Collected: 01/06/22 12:50

Matrix: Solid

Date Received: 01/06/22 15:17

Sample Depth: 1 - 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	114		70 - 130	01/11/22 07:30	01/11/22 11:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/12/22 12:57	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/11/22 14:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/10/22 22:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/10/22 22:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/10/22 22:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130			01/10/22 11:18	01/10/22 22:44	1
o-Terphenyl (Surr)	81		70 - 130			01/10/22 11:18	01/10/22 22:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.6		4.98	mg/Kg			01/14/22 00:34	1

Client Sample ID: C-1256 1-4.1'

Lab Sample ID: 890-1808-3

Date Collected: 01/06/22 12:40

Matrix: Solid

Date Received: 01/06/22 15:17

Sample Depth: 1 - 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/11/22 07:30	01/11/22 12:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/11/22 07:30	01/11/22 12:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/11/22 07:30	01/11/22 12:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/11/22 07:30	01/11/22 12:06	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/11/22 07:30	01/11/22 12:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/11/22 07:30	01/11/22 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/11/22 07:30	01/11/22 12:06	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/11/22 07:30	01/11/22 12:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/12/22 12:57	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/11/22 14:19	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Client Sample ID: C-1256 1-4.1'

Lab Sample ID: 890-1808-3

Date Collected: 01/06/22 12:40

Matrix: Solid

Date Received: 01/06/22 15:17

Sample Depth: 1 - 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/10/22 11:18	01/10/22 23:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/10/22 11:18	01/10/22 23:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/10/22 11:18	01/10/22 23:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			01/10/22 11:18	01/10/22 23:05	1
o-Terphenyl (Surr)	89		70 - 130			01/10/22 11:18	01/10/22 23:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		5.04	mg/Kg			01/14/22 00:40	1

Client Sample ID: C-1257 1-4.1'

Lab Sample ID: 890-1808-4

Date Collected: 01/06/22 12:30

Matrix: Solid

Date Received: 01/06/22 15:17

Sample Depth: 1 - 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/11/22 07:30	01/11/22 12:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/11/22 07:30	01/11/22 12:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/11/22 07:30	01/11/22 12:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/11/22 07:30	01/11/22 12:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/11/22 07:30	01/11/22 12:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/11/22 07:30	01/11/22 12:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			01/11/22 07:30	01/11/22 12:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130			01/11/22 07:30	01/11/22 12:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/12/22 12:57	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/11/22 14:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/10/22 11:18	01/10/22 23:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/10/22 11:18	01/10/22 23:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/10/22 11:18	01/10/22 23:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			01/10/22 11:18	01/10/22 23:25	1
o-Terphenyl (Surr)	84		70 - 130			01/10/22 11:18	01/10/22 23:25	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Client Sample ID: C-1257 1-4.1'
Date Collected: 01/06/22 12:30
Date Received: 01/06/22 15:17
Sample Depth: 1 - 4.1

Lab Sample ID: 890-1808-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	272		4.98	mg/Kg			01/14/22 00:47	1	

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1808-1	C-1251 1-4.1'	115	99
890-1808-1 MS	C-1251 1-4.1'	113	97
890-1808-1 MSD	C-1251 1-4.1'	114	99
890-1808-2	C-1255 1-4.1'	123	114
890-1808-3	C-1256 1-4.1'	110	102
890-1808-4	C-1257 1-4.1'	112	103
LCS 880-16375/1-A	Lab Control Sample	106	102
LCSD 880-16375/2-A	Lab Control Sample Dup	100	95
MB 880-16375/5-A	Method Blank	122	104
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1808-1	C-1251 1-4.1'	95	90
890-1808-1 MS	C-1251 1-4.1'	75	66 S1-
890-1808-1 MSD	C-1251 1-4.1'	77	75
890-1808-2	C-1255 1-4.1'	82	81
890-1808-3	C-1256 1-4.1'	90	89
890-1808-4	C-1257 1-4.1'	83	84
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-16424/2-A	Lab Control Sample	88	82
LCSD 880-16424/3-A	Lab Control Sample Dup	90	85
MB 880-16424/1-A	Method Blank	85	86
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16375/5-A

Matrix: Solid

Analysis Batch: 16473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16375

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 10:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 10:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 10:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/11/22 07:30	01/11/22 10:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 10:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/11/22 07:30	01/11/22 10:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/11/22 07:30	01/11/22 10:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/11/22 07:30	01/11/22 10:56	1

Lab Sample ID: LCS 880-16375/1-A

Matrix: Solid

Analysis Batch: 16473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16375

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08315		mg/Kg		83	70 - 130
Toluene	0.100	0.08870		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09339		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1861		mg/Kg		93	70 - 130
o-Xylene	0.100	0.08889		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-16375/2-A

Matrix: Solid

Analysis Batch: 16473

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16375

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07953		mg/Kg		80	70 - 130	4	35
Toluene	0.100	0.08523		mg/Kg		85	70 - 130	4	35
Ethylbenzene	0.100	0.08496		mg/Kg		85	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1720		mg/Kg		86	70 - 130	8	35
o-Xylene	0.100	0.08408		mg/Kg		84	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-1808-1 MS

Matrix: Solid

Analysis Batch: 16473

Client Sample ID: C-1251 1-4.1'

Prep Type: Total/NA

Prep Batch: 16375

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U	0.0996	0.07065		mg/Kg		71	70 - 130
Toluene	<0.00202	U	0.0996	0.08138		mg/Kg		81	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1808-1 MS

Matrix: Solid

Analysis Batch: 16473

Client Sample ID: C-1251 1-4.1'

Prep Type: Total/NA

Prep Batch: 16375

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00202	U	0.0996	0.08297		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1604		mg/Kg		81	70 - 130
o-Xylene	<0.00202	U	0.0996	0.07909		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1808-1 MSD

Matrix: Solid

Analysis Batch: 16473

Client Sample ID: C-1251 1-4.1'

Prep Type: Total/NA

Prep Batch: 16375

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.07696		mg/Kg		77	70 - 130	9	35
Toluene	<0.00202	U	0.100	0.08435		mg/Kg		84	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.100	0.08810		mg/Kg		88	70 - 130	6	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1699		mg/Kg		85	70 - 130	6	35
o-Xylene	<0.00202	U	0.100	0.08222		mg/Kg		82	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-16424/1-A

Matrix: Solid

Analysis Batch: 16336

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16424

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/10/22 20:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/10/22 20:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/10/22 20:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130	01/10/22 11:18	01/10/22 20:35	1
o-Terphenyl (Surr)	86		70 - 130	01/10/22 11:18	01/10/22 20:35	1

Lab Sample ID: LCS 880-16424/2-A

Matrix: Solid

Analysis Batch: 16336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	826.7		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	915.4		mg/Kg		92	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-16424/2-A

Matrix: Solid

Analysis Batch: 16336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16424

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-16424/3-A

Matrix: Solid

Analysis Batch: 16336

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16424

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	841.5		mg/Kg		84	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	916.2		mg/Kg		92	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	85		70 - 130

Lab Sample ID: 890-1808-1 MS

Matrix: Solid

Analysis Batch: 16336

Client Sample ID: C-1251 1-4.1'

Prep Type: Total/NA

Prep Batch: 16424

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	977.5		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	851.8		mg/Kg		86	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	75		70 - 130
o-Terphenyl (Surr)	66	S1-	70 - 130

Lab Sample ID: 890-1808-1 MSD

Matrix: Solid

Analysis Batch: 16336

Client Sample ID: C-1251 1-4.1'

Prep Type: Total/NA

Prep Batch: 16424

	Sample	Sample	Spike	MSD	MSD				%Rec.			RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1093		mg/Kg		107	70 - 130	11	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	862.8		mg/Kg		86	70 - 130	1	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	77		70 - 130
o-Terphenyl (Surr)	75		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16432/1-A

Matrix: Solid

Analysis Batch: 16543

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/13/22 21:45	1

Lab Sample ID: LCS 880-16432/2-A

Matrix: Solid

Analysis Batch: 16543

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	264.9		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-16432/3-A

Matrix: Solid

Analysis Batch: 16543

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	270.8		mg/Kg		108	90 - 110	2	20

Lab Sample ID: 890-1807-A-3-D MS

Matrix: Solid

Analysis Batch: 16543

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	278	F1	250	567.3	F1	mg/Kg		116	90 - 110

Lab Sample ID: 890-1807-A-3-E MSD

Matrix: Solid

Analysis Batch: 16543

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	278	F1	250	567.6	F1	mg/Kg		116	90 - 110	0	20

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

GC VOA

Prep Batch: 16375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1808-1	C-1251 1-4.1'	Total/NA	Solid	5035	
890-1808-2	C-1255 1-4.1'	Total/NA	Solid	5035	
890-1808-3	C-1256 1-4.1'	Total/NA	Solid	5035	
890-1808-4	C-1257 1-4.1'	Total/NA	Solid	5035	
MB 880-16375/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16375/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16375/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1808-1 MS	C-1251 1-4.1'	Total/NA	Solid	5035	
890-1808-1 MSD	C-1251 1-4.1'	Total/NA	Solid	5035	

Analysis Batch: 16473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1808-1	C-1251 1-4.1'	Total/NA	Solid	8021B	16375
890-1808-2	C-1255 1-4.1'	Total/NA	Solid	8021B	16375
890-1808-3	C-1256 1-4.1'	Total/NA	Solid	8021B	16375
890-1808-4	C-1257 1-4.1'	Total/NA	Solid	8021B	16375
MB 880-16375/5-A	Method Blank	Total/NA	Solid	8021B	16375
LCS 880-16375/1-A	Lab Control Sample	Total/NA	Solid	8021B	16375
LCSD 880-16375/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16375
890-1808-1 MS	C-1251 1-4.1'	Total/NA	Solid	8021B	16375
890-1808-1 MSD	C-1251 1-4.1'	Total/NA	Solid	8021B	16375

Analysis Batch: 16668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1808-1	C-1251 1-4.1'	Total/NA	Solid	Total BTEX	
890-1808-2	C-1255 1-4.1'	Total/NA	Solid	Total BTEX	
890-1808-3	C-1256 1-4.1'	Total/NA	Solid	Total BTEX	
890-1808-4	C-1257 1-4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 16336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1808-1	C-1251 1-4.1'	Total/NA	Solid	8015B NM	16424
890-1808-2	C-1255 1-4.1'	Total/NA	Solid	8015B NM	16424
890-1808-3	C-1256 1-4.1'	Total/NA	Solid	8015B NM	16424
890-1808-4	C-1257 1-4.1'	Total/NA	Solid	8015B NM	16424
MB 880-16424/1-A	Method Blank	Total/NA	Solid	8015B NM	16424
LCS 880-16424/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16424
LCSD 880-16424/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16424
890-1808-1 MS	C-1251 1-4.1'	Total/NA	Solid	8015B NM	16424
890-1808-1 MSD	C-1251 1-4.1'	Total/NA	Solid	8015B NM	16424

Prep Batch: 16424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1808-1	C-1251 1-4.1'	Total/NA	Solid	8015NM Prep	
890-1808-2	C-1255 1-4.1'	Total/NA	Solid	8015NM Prep	
890-1808-3	C-1256 1-4.1'	Total/NA	Solid	8015NM Prep	
890-1808-4	C-1257 1-4.1'	Total/NA	Solid	8015NM Prep	
MB 880-16424/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16424/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 16424 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-16424/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1808-1 MS	C-1251 1-4.1'	Total/NA	Solid	8015NM Prep	
890-1808-1 MSD	C-1251 1-4.1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1808-1	C-1251 1-4.1'	Total/NA	Solid	8015 NM	
890-1808-2	C-1255 1-4.1'	Total/NA	Solid	8015 NM	
890-1808-3	C-1256 1-4.1'	Total/NA	Solid	8015 NM	
890-1808-4	C-1257 1-4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1808-1	C-1251 1-4.1'	Soluble	Solid	DI Leach	
890-1808-2	C-1255 1-4.1'	Soluble	Solid	DI Leach	
890-1808-3	C-1256 1-4.1'	Soluble	Solid	DI Leach	
890-1808-4	C-1257 1-4.1'	Soluble	Solid	DI Leach	
MB 880-16432/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16432/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16432/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1807-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1807-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 16543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1808-1	C-1251 1-4.1'	Soluble	Solid	300.0	16432
890-1808-2	C-1255 1-4.1'	Soluble	Solid	300.0	16432
890-1808-3	C-1256 1-4.1'	Soluble	Solid	300.0	16432
890-1808-4	C-1257 1-4.1'	Soluble	Solid	300.0	16432
MB 880-16432/1-A	Method Blank	Soluble	Solid	300.0	16432
LCS 880-16432/2-A	Lab Control Sample	Soluble	Solid	300.0	16432
LCSD 880-16432/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16432
890-1807-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	16432
890-1807-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	16432

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Client Sample ID: C-1251 1-4.1'

Lab Sample ID: 890-1808-1

Date Collected: 01/06/22 08:21

Matrix: Solid

Date Received: 01/06/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16375	01/11/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16473	01/11/22 11:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16668	01/12/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/11/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16336	01/10/22 21:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16432	01/10/22 13:08	CH	XEN MID
Soluble	Analysis	300.0		1			16543	01/14/22 00:28	CH	XEN MID

Client Sample ID: C-1255 1-4.1'

Lab Sample ID: 890-1808-2

Date Collected: 01/06/22 12:50

Matrix: Solid

Date Received: 01/06/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16375	01/11/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16473	01/11/22 11:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16668	01/12/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/11/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16336	01/10/22 22:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16432	01/10/22 13:08	CH	XEN MID
Soluble	Analysis	300.0		1			16543	01/14/22 00:34	CH	XEN MID

Client Sample ID: C-1256 1-4.1'

Lab Sample ID: 890-1808-3

Date Collected: 01/06/22 12:40

Matrix: Solid

Date Received: 01/06/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16375	01/11/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16473	01/11/22 12:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16668	01/12/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/11/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16336	01/10/22 23:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16432	01/10/22 13:08	CH	XEN MID
Soluble	Analysis	300.0		1			16543	01/14/22 00:40	CH	XEN MID

Client Sample ID: C-1257 1-4.1'

Lab Sample ID: 890-1808-4

Date Collected: 01/06/22 12:30

Matrix: Solid

Date Received: 01/06/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	16375	01/11/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16473	01/11/22 12:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16668	01/12/22 12:57	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Client Sample ID: C-1257 1-4.1'
Date Collected: 01/06/22 12:30
Date Received: 01/06/22 15:17

Lab Sample ID: 890-1808-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16554	01/11/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16336	01/10/22 23:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16432	01/10/22 13:08	CH	XEN MID
Soluble	Analysis	300.0		1			16543	01/14/22 00:47	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

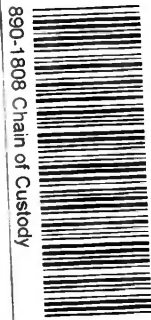
Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1808-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1808-1	C-1251 1-4.1'	Solid	01/06/22 08:21	01/06/22 15:17	1 - 4.1
890-1808-2	C-1255 1-4.1'	Solid	01/06/22 12:50	01/06/22 15:17	1 - 4.1
890-1808-3	C-1256 1-4.1'	Solid	01/06/22 12:40	01/06/22 15:17	1 - 4.1
890-1808-4	C-1257 1-4.1'	Solid	01/06/22 12:30	01/06/22 15:17	1 - 4.1

Varson & Associates, Inc.
Environmental Consultants



800-1808 Chain of Custody

CHAIN-OF-CUSTODY

No. 2335

DATE: 1-6-22

PAGE 1 OF 1

PO#:

LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Palmis Abt

LAI PROJECT #:

21-0105-02

COLLECTOR: TP

Data Reported to:

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State
MST/NM

Field Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX/MTBE

TPH 418.1

GASOLINE MOD 8015

DIESEL MOD 8015

OIL MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PESTICIDES

TCLP PCBs

TCLP METALS (RCRA)

TCLP PEST

TOTAL METALS (RCRA)

LEAD - TOTAL

RCI - TOTAL

TDS

TOX

TSS

PH

EXPLOSIVES

HEXAVALENT CHROMIUM

PELLETORATE

CHLORIDE ANIONS

ALKALINITY

FIELD NOTES

C-1251 1-41
C-1255 1-41
C-1256 1-41
C-1257 1-41

1-6-22

0821

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C-1251 1-41
C-1255 1-41
C-1256 1-41
C-1257 1-41

1-6-22

0821

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TOTAL 4

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

1-6-21 1517

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

LABORATORY: Xenu

TURN AROUND TIME

LABORATORY USE ONLY

RECEIVING TEMP 18.0

THERM# 2007

NORMAL

1 DAY

2 DAY

OTHER

CUSTODY SEALS

BROKEN

INTACT

NOT USED

CARRIER BILL #

CIP Coating In Process

HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1808-1

SDG Number: 21-0105-02

Login Number: 1808

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1808-1

SDG Number: 21-0105-02

Login Number: 1808

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Midland

List Creation: 01/10/22 08:22 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-9998-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/17/2022 6:47:42 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-9998-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

Job ID: 880-9998-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-9998-1

Receipt

The sample was received on 1/10/2022 8:54 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16424 and analytical batch 880-16336 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16446 and analytical batch 880-16870 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

Client Sample ID: C-1250 1-4.1'

Lab Sample ID: 880-9998-1

Date Collected: 01/07/22 10:00

Matrix: Solid

Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/11/22 08:00	01/12/22 02:52	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/11/22 08:00	01/12/22 02:52	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/11/22 08:00	01/12/22 02:52	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		01/11/22 08:00	01/12/22 02:52	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/11/22 08:00	01/12/22 02:52	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/11/22 08:00	01/12/22 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/11/22 08:00	01/12/22 02:52	1
1,4-Difluorobenzene (Surr)	84		70 - 130	01/11/22 08:00	01/12/22 02:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/13/22 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/13/22 14:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/11/22 01:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/11/22 01:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/11/22 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	01/10/22 11:18	01/11/22 01:28	1
o-Terphenyl (Surr)	88		70 - 130	01/10/22 11:18	01/11/22 01:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.50	F1	4.95	mg/Kg			01/15/22 17:42	1

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9998-1	C-1250 1-4.1'	102	84
880-10005-A-41-A MS	Matrix Spike	104	102
880-10005-A-41-B MSD	Matrix Spike Duplicate	107	89
LCS 880-16376/1-A	Lab Control Sample	100	94
LCSD 880-16376/2-A	Lab Control Sample Dup	99	92
MB 880-16376/5-A	Method Blank	110	103
MB 880-16386/5-A	Method Blank	107	97
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-9998-1	C-1250 1-4.1'	87	88
890-1808-A-1-E MS	Matrix Spike	75	66 S1-
890-1808-A-1-F MSD	Matrix Spike Duplicate	77	75
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-16424/2-A	Lab Control Sample	88	82
LCSD 880-16424/3-A	Lab Control Sample Dup	90	85
MB 880-16424/1-A	Method Blank	85	86
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16376/5-A

Matrix: Solid

Analysis Batch: 16472

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16376

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/11/22 08:00	01/11/22 21:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/11/22 08:00	01/11/22 21:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/11/22 08:00	01/11/22 21:41	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/11/22 08:00	01/11/22 21:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/11/22 08:00	01/11/22 21:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/11/22 08:00	01/11/22 21:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/11/22 08:00	01/11/22 21:41	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/11/22 08:00	01/11/22 21:41	1

Lab Sample ID: LCS 880-16376/1-A

Matrix: Solid

Analysis Batch: 16472

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07594		mg/Kg		76	70 - 130
Toluene	0.100	0.07560		mg/Kg		76	70 - 130
Ethylbenzene	0.100	0.07767		mg/Kg		78	70 - 130
m,p-Xylenes	0.200	0.1587		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07884		mg/Kg		79	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-16376/2-A

Matrix: Solid

Analysis Batch: 16472

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07590		mg/Kg		76	70 - 130	0	35
Toluene	0.100	0.07686		mg/Kg		77	70 - 130	2	35
Ethylbenzene	0.100	0.07897		mg/Kg		79	70 - 130	2	35
m,p-Xylenes	0.200	0.1605		mg/Kg		80	70 - 130	1	35
o-Xylene	0.100	0.07952		mg/Kg		80	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-10005-A-41-A MS

Matrix: Solid

Analysis Batch: 16472

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.0992	0.06363	F1	mg/Kg		64	70 - 130
Toluene	<0.00200	U F1	0.0992	0.06261	F1	mg/Kg		63	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-10005-A-41-A MS

Matrix: Solid

Analysis Batch: 16472

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U F1	0.0992	0.06443	F1	mg/Kg		65	70 - 130
m,p-Xylenes	<0.00399	U F1	0.198	0.1315	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00200	U F1	0.0992	0.06539	F1	mg/Kg		66	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-10005-A-41-B MSD

Matrix: Solid

Analysis Batch: 16472

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.05143	F1	mg/Kg		51	70 - 130	21	35
Toluene	<0.00200	U F1	0.100	0.04948	F1	mg/Kg		49	70 - 130	23	35
Ethylbenzene	<0.00200	U F1	0.100	0.05221	F1	mg/Kg		52	70 - 130	21	35
m,p-Xylenes	<0.00399	U F1	0.200	0.1088	F1	mg/Kg		54	70 - 130	19	35
o-Xylene	<0.00200	U F1	0.100	0.05514	F1	mg/Kg		55	70 - 130	17	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: MB 880-16386/5-A

Matrix: Solid

Analysis Batch: 16472

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16386

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/10/22 10:10	01/11/22 10:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/10/22 10:10	01/11/22 10:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/10/22 10:10	01/11/22 10:49	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/10/22 10:10	01/11/22 10:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/10/22 10:10	01/11/22 10:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/10/22 10:10	01/11/22 10:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	01/10/22 10:10	01/11/22 10:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/10/22 10:10	01/11/22 10:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-16424/1-A

Matrix: Solid

Analysis Batch: 16336

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16424

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/10/22 20:35	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-16424/1-A

Matrix: Solid

Analysis Batch: 16336

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16424

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/10/22 20:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/10/22 20:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			01/10/22 11:18	01/10/22 20:35	1
o-Terphenyl (Surr)	86		70 - 130			01/10/22 11:18	01/10/22 20:35	1

Lab Sample ID: LCS 880-16424/2-A

Matrix: Solid

Analysis Batch: 16336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	826.7		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	915.4		mg/Kg		92	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	88		70 - 130				
o-Terphenyl (Surr)	82		70 - 130				

Lab Sample ID: LCSD 880-16424/3-A

Matrix: Solid

Analysis Batch: 16336

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16424

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	841.5		mg/Kg		84	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	916.2		mg/Kg		92	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	90		70 - 130						
o-Terphenyl (Surr)	85		70 - 130						

Lab Sample ID: 890-1808-A-1-E MS

Matrix: Solid

Analysis Batch: 16336

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	977.5		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	851.8		mg/Kg		86	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	75		70 - 130						
o-Terphenyl (Surr)	66	S1-	70 - 130						

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1808-A-1-F MSD

Matrix: Solid

Analysis Batch: 16336

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16424

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1093		mg/Kg		107	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	862.8		mg/Kg		86	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	77		70 - 130								
o-Terphenyl (Surr)	75		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16446/1-A

Matrix: Solid

Analysis Batch: 16870

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/15/22 17:17	1

Lab Sample ID: LCS 880-16446/2-A

Matrix: Solid

Analysis Batch: 16870

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	270.3		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-16446/3-A

Matrix: Solid

Analysis Batch: 16870

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	274.0		mg/Kg		110	90 - 110	1	20

Lab Sample ID: 880-9998-1 MS

Matrix: Solid

Analysis Batch: 16870

Client Sample ID: C-1250 1-4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.50	F1	248	451.1	F1	mg/Kg		178	90 - 110

Lab Sample ID: 880-9998-1 MSD

Matrix: Solid

Analysis Batch: 16870

Client Sample ID: C-1250 1-4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.50	F1	248	432.1	F1	mg/Kg		171	90 - 110	4	20

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

GC VOA

Prep Batch: 16376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9998-1	C-1250 1-4.1'	Total/NA	Solid	5035	
MB 880-16376/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16376/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16376/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10005-A-41-A MS	Matrix Spike	Total/NA	Solid	5035	
880-10005-A-41-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 16386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16386/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 16472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9998-1	C-1250 1-4.1'	Total/NA	Solid	8021B	16376
MB 880-16376/5-A	Method Blank	Total/NA	Solid	8021B	16376
MB 880-16386/5-A	Method Blank	Total/NA	Solid	8021B	16386
LCS 880-16376/1-A	Lab Control Sample	Total/NA	Solid	8021B	16376
LCSD 880-16376/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16376
880-10005-A-41-A MS	Matrix Spike	Total/NA	Solid	8021B	16376
880-10005-A-41-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16376

Analysis Batch: 16785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9998-1	C-1250 1-4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 16336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9998-1	C-1250 1-4.1'	Total/NA	Solid	8015B NM	16424
MB 880-16424/1-A	Method Blank	Total/NA	Solid	8015B NM	16424
LCS 880-16424/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16424
LCSD 880-16424/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16424
890-1808-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	16424
890-1808-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16424

Prep Batch: 16424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9998-1	C-1250 1-4.1'	Total/NA	Solid	8015NM Prep	
MB 880-16424/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16424/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16424/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1808-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1808-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9998-1	C-1250 1-4.1'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 16446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9998-1	C-1250 1-4.1'	Soluble	Solid	DI Leach	
MB 880-16446/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16446/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16446/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9998-1 MS	C-1250 1-4.1'	Soluble	Solid	DI Leach	
880-9998-1 MSD	C-1250 1-4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 16870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9998-1	C-1250 1-4.1'	Soluble	Solid	300.0	16446
MB 880-16446/1-A	Method Blank	Soluble	Solid	300.0	16446
LCS 880-16446/2-A	Lab Control Sample	Soluble	Solid	300.0	16446
LCSD 880-16446/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16446
880-9998-1 MS	C-1250 1-4.1'	Soluble	Solid	300.0	16446
880-9998-1 MSD	C-1250 1-4.1'	Soluble	Solid	300.0	16446

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

Client Sample ID: C-1250 1-4.1'
Date Collected: 01/07/22 10:00
Date Received: 01/10/22 08:54

Lab Sample ID: 880-9998-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	16376	01/11/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/12/22 02:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16336	01/11/22 01:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		1			16870	01/15/22 17:42	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-9998-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-9998-1	C-1250 1-4.1'	Solid	01/07/22 10:00	01/10/22 08:54

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Carson & Associates, Inc.
Environmental Consultants

507 N. Mainfield, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time Zone/State:
MST/M

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX-MTBE
TRPH 418.1
GASOLINE MOD 8015
DIESEL - MOD 8015
OIL - MOD 8015
VOC 8260
SVOC 8270
8081 PESTICIDES
8082 PCBS
TCPP - METALS (RCRA)
TCPP - PEST
TOTAL METALS (RCRA)
LEAD - TOTAL
RCL
TDS
pH
EXPLOSIVES
CHLORIDES
ANIONS
ALKALINITY

FIELD NOTES

DATE: 1-7-22

PO#:

PROJECT LOCATION OR NAME: Palmco AstLAI PROJECT #: 21-065-02COLLECTOR: TP

LAB WORK ORDER#:

PAGE 1 OF 1

9998 CHAIN-OF-CUSTODY

No. 2336

880-9998 Chain of Custody



Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-9998-1

SDG Number: 21-0105-02

Login Number: 9998

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1819-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: PALMIO AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/17/2022 6:47:45 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Laboratory Job ID: 890-1819-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Job ID: 890-1819-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-1819-1****Receipt**

The samples were received on 1/11/2022 3:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-1175 (890-1819-8) and (MB 880-16781/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-1134 (890-1819-1), C-1137 (890-1819-4), C-1113 (890-1819-5), C-1118 (890-1819-6), C-1139 (890-1819-7), C-1175 (890-1819-8), C-1189 (890-1819-9), C-1270 (890-1819-10), C-1271 (890-1819-11), (MB 880-16794/1-A), (890-1818-A-1-E MS) and (890-1818-A-1-F MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16761 and analytical batch 880-16927 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1134

Lab Sample ID: 890-1819-1

Date Collected: 01/10/22 13:30

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/13/22 12:30	01/13/22 15:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/13/22 12:30	01/13/22 15:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/13/22 12:30	01/13/22 15:18	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		01/13/22 12:30	01/13/22 15:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/13/22 12:30	01/13/22 15:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/13/22 12:30	01/13/22 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130	01/13/22 12:30	01/13/22 15:18	1
1,4-Difluorobenzene (Surr)	128		70 - 130	01/13/22 12:30	01/13/22 15:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/17/22 14:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/17/22 14:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 15:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 15:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	65	S1-	70 - 130	01/13/22 14:51	01/15/22 15:52	1
o-Terphenyl (Surr)	70		70 - 130	01/13/22 14:51	01/15/22 15:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		4.95	mg/Kg			01/16/22 02:28	1

Client Sample ID: C-1135

Lab Sample ID: 890-1819-2

Date Collected: 01/10/22 13:37

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/13/22 12:30	01/13/22 15:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/13/22 12:30	01/13/22 15:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/13/22 12:30	01/13/22 15:38	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		01/13/22 12:30	01/13/22 15:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/13/22 12:30	01/13/22 15:38	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/13/22 12:30	01/13/22 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/13/22 12:30	01/13/22 15:38	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/13/22 12:30	01/13/22 15:38	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1135

Lab Sample ID: 890-1819-2

Date Collected: 01/10/22 13:37

Matrix: Solid

Date Received: 01/11/22 15:57

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/17/22 14:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/17/22 14:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/13/22 13:59	01/14/22 09:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/13/22 13:59	01/14/22 09:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/13/22 13:59	01/14/22 09:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	67	S1-	70 - 130			01/13/22 13:59	01/14/22 09:25	1
o-Terphenyl (Surr)	76		70 - 130			01/13/22 13:59	01/14/22 09:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.95	mg/Kg			01/16/22 02:35	1

Client Sample ID: C-1136

Lab Sample ID: 890-1819-3

Date Collected: 01/10/22 13:42

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/13/22 12:30	01/13/22 15:58	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/13/22 12:30	01/13/22 15:58	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/13/22 12:30	01/13/22 15:58	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		01/13/22 12:30	01/13/22 15:58	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/13/22 12:30	01/13/22 15:58	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/13/22 12:30	01/13/22 15:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			01/13/22 12:30	01/13/22 15:58	1
1,4-Difluorobenzene (Surr)	115		70 - 130			01/13/22 12:30	01/13/22 15:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/17/22 14:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/17/22 14:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/13/22 14:51	01/15/22 16:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/13/22 14:51	01/15/22 16:11	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1136

Lab Sample ID: 890-1819-3

Date Collected: 01/10/22 13:42

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/13/22 14:51	01/15/22 16:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	72		70 - 130			01/13/22 14:51	01/15/22 16:11	1
o-Terphenyl (Surr)	79		70 - 130			01/13/22 14:51	01/15/22 16:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		5.04	mg/Kg			01/16/22 02:42	1

Client Sample ID: C-1137

Lab Sample ID: 890-1819-4

Date Collected: 01/10/22 13:48

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/13/22 12:30	01/13/22 16:19	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/13/22 12:30	01/13/22 16:19	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/13/22 12:30	01/13/22 16:19	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		01/13/22 12:30	01/13/22 16:19	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/13/22 12:30	01/13/22 16:19	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/13/22 12:30	01/13/22 16:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			01/13/22 12:30	01/13/22 16:19	1
1,4-Difluorobenzene (Surr)	103		70 - 130			01/13/22 12:30	01/13/22 16:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/17/22 14:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/17/22 14:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 16:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 16:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 16:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	67	S1-	70 - 130			01/13/22 14:51	01/15/22 16:31	1
o-Terphenyl (Surr)	75		70 - 130			01/13/22 14:51	01/15/22 16:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		4.99	mg/Kg			01/16/22 02:49	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1113

Lab Sample ID: 890-1819-5

Date Collected: 01/11/22 09:45

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/13/22 12:30	01/13/22 16:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/13/22 12:30	01/13/22 16:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/13/22 12:30	01/13/22 16:39	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		01/13/22 12:30	01/13/22 16:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/13/22 12:30	01/13/22 16:39	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/13/22 12:30	01/13/22 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	01/13/22 12:30	01/13/22 16:39	1
1,4-Difluorobenzene (Surr)	110		70 - 130	01/13/22 12:30	01/13/22 16:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/17/22 14:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/17/22 14:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 16:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 16:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	64	S1-	70 - 130	01/13/22 14:51	01/15/22 16:52	1
o-Terphenyl (Surr)	70		70 - 130	01/13/22 14:51	01/15/22 16:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	247		4.98	mg/Kg			01/17/22 00:17	1

Client Sample ID: C-1118

Lab Sample ID: 890-1819-6

Date Collected: 01/11/22 08:10

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/14/22 12:00	01/15/22 22:18	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/14/22 12:00	01/15/22 22:18	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/14/22 12:00	01/15/22 22:18	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		01/14/22 12:00	01/15/22 22:18	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/14/22 12:00	01/15/22 22:18	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/14/22 12:00	01/15/22 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	01/14/22 12:00	01/15/22 22:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/14/22 12:00	01/15/22 22:18	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1118

Lab Sample ID: 890-1819-6

Date Collected: 01/11/22 08:10

Matrix: Solid

Date Received: 01/11/22 15:57

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/17/22 14:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/17/22 14:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/13/22 14:51	01/15/22 17:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/13/22 14:51	01/15/22 17:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/13/22 14:51	01/15/22 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	66	S1-	70 - 130			01/13/22 14:51	01/15/22 17:32	1
o-Terphenyl (Surr)	71		70 - 130			01/13/22 14:51	01/15/22 17:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	931		5.04	mg/Kg			01/17/22 00:29	1

Client Sample ID: C-1139

Lab Sample ID: 890-1819-7

Date Collected: 01/11/22 08:25

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/14/22 12:00	01/15/22 22:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/14/22 12:00	01/15/22 22:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/14/22 12:00	01/15/22 22:44	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		01/14/22 12:00	01/15/22 22:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/14/22 12:00	01/15/22 22:44	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/14/22 12:00	01/15/22 22:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			01/14/22 12:00	01/15/22 22:44	1
1,4-Difluorobenzene (Surr)	10	S1-	70 - 130			01/14/22 12:00	01/15/22 22:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/17/22 14:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/17/22 14:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/13/22 14:51	01/15/22 17:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/13/22 14:51	01/15/22 17:52	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1139

Lab Sample ID: 890-1819-7

Date Collected: 01/11/22 08:25

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/13/22 14:51	01/15/22 17:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	56	S1-	70 - 130			01/13/22 14:51	01/15/22 17:52	1
o-Terphenyl (Surr)	61	S1-	70 - 130			01/13/22 14:51	01/15/22 17:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	520		5.04	mg/Kg			01/17/22 00:41	1

Client Sample ID: C-1175

Lab Sample ID: 890-1819-8

Date Collected: 01/11/22 09:55

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/14/22 12:00	01/15/22 23:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/14/22 12:00	01/15/22 23:11	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/14/22 12:00	01/15/22 23:11	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		01/14/22 12:00	01/15/22 23:11	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/14/22 12:00	01/15/22 23:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/14/22 12:00	01/15/22 23:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			01/14/22 12:00	01/15/22 23:11	1
1,4-Difluorobenzene (Surr)	101		70 - 130			01/14/22 12:00	01/15/22 23:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/17/22 14:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/17/22 14:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 18:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 18:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	64	S1-	70 - 130			01/13/22 14:51	01/15/22 18:12	1
o-Terphenyl (Surr)	69	S1-	70 - 130			01/13/22 14:51	01/15/22 18:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	415		5.03	mg/Kg			01/17/22 00:53	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1189

Lab Sample ID: 890-1819-9

Date Collected: 01/11/22 08:45

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/14/22 12:00	01/15/22 23:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/14/22 12:00	01/15/22 23:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/14/22 12:00	01/15/22 23:38	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		01/14/22 12:00	01/15/22 23:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/14/22 12:00	01/15/22 23:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/14/22 12:00	01/15/22 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/14/22 12:00	01/15/22 23:38	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/14/22 12:00	01/15/22 23:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/17/22 14:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/17/22 14:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 18:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 18:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130	01/13/22 14:51	01/15/22 18:32	1
o-Terphenyl (Surr)	74		70 - 130	01/13/22 14:51	01/15/22 18:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	419		4.98	mg/Kg			01/17/22 01:05	1

Client Sample ID: C-1270

Lab Sample ID: 890-1819-10

Date Collected: 01/11/22 11:14

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/14/22 12:00	01/16/22 00:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/14/22 12:00	01/16/22 00:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/14/22 12:00	01/16/22 00:05	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		01/14/22 12:00	01/16/22 00:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/14/22 12:00	01/16/22 00:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/14/22 12:00	01/16/22 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/14/22 12:00	01/16/22 00:05	1
1,4-Difluorobenzene (Surr)	75		70 - 130	01/14/22 12:00	01/16/22 00:05	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1270

Lab Sample ID: 890-1819-10

Date Collected: 01/11/22 11:14

Matrix: Solid

Date Received: 01/11/22 15:57

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/17/22 14:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/17/22 14:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 18:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 18:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	67	S1-	70 - 130			01/13/22 14:51	01/15/22 18:52	1
o-Terphenyl (Surr)	75		70 - 130			01/13/22 14:51	01/15/22 18:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.0		4.95	mg/Kg			01/17/22 01:17	1

Client Sample ID: C-1271

Lab Sample ID: 890-1819-11

Date Collected: 01/11/22 13:48

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/17/22 07:15	01/17/22 12:07	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/17/22 07:15	01/17/22 12:07	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/17/22 07:15	01/17/22 12:07	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		01/17/22 07:15	01/17/22 12:07	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/17/22 07:15	01/17/22 12:07	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/17/22 07:15	01/17/22 12:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			01/17/22 07:15	01/17/22 12:07	1
1,4-Difluorobenzene (Surr)	97		70 - 130			01/17/22 07:15	01/17/22 12:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/17/22 14:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/17/22 14:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 19:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 19:11	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1271

Lab Sample ID: 890-1819-11

Date Collected: 01/11/22 13:48

Matrix: Solid

Date Received: 01/11/22 15:57

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/13/22 14:51	01/15/22 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	62	S1-	70 - 130	01/13/22 14:51	01/15/22 19:11	1
o-Terphenyl (Surr)	64	S1-	70 - 130	01/13/22 14:51	01/15/22 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		5.05	mg/Kg			01/17/22 01:29	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-10144-A-1-A MS	Matrix Spike	109	109
880-10144-A-1-B MSD	Matrix Spike Duplicate	107	97
880-10224-A-1-A MS	Matrix Spike	84	105
880-10224-A-1-B MSD	Matrix Spike Duplicate	107	125
890-1819-1	C-1134	162 S1+	128
890-1819-2	C-1135	121	102
890-1819-3	C-1136	124	115
890-1819-4	C-1137	124	103
890-1819-5	C-1113	130	110
890-1819-6	C-1118	99	102
890-1819-7	C-1139	101	10 S1-
890-1819-8	C-1175	136 S1+	101
890-1819-9	C-1189	98	105
890-1819-10	C-1270	105	75
890-1819-11	C-1271	101	97
LCS 880-16670/1-A	Lab Control Sample	105	82
LCS 880-16781/1-A	Lab Control Sample	85	94
LCS 880-16869/1-A	Lab Control Sample	86	103
LCSD 880-16670/2-A	Lab Control Sample Dup	103	97
LCSD 880-16781/2-A	Lab Control Sample Dup	94	100
LCSD 880-16869/2-A	Lab Control Sample Dup	87	103
MB 880-16670/5-A	Method Blank	101	98
MB 880-16781/5-A	Method Blank	62 S1-	91
MB 880-16869/5-A	Method Blank	70	92
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
890-1829-A-1-A MS	Matrix Spike		
890-1829-A-1-B MSD	Matrix Spike Duplicate		
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1818-A-1-E MS	Matrix Spike	68 S1-	68 S1-
890-1818-A-1-F MSD	Matrix Spike Duplicate	68 S1-	68 S1-
890-1819-1	C-1134	65 S1-	70

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1819-1

Project/Site: PALMIO AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1819-2	C-1135	67 S1-	76
890-1819-3	C-1136	72	79
890-1819-4	C-1137	67 S1-	75
890-1819-5	C-1113	64 S1-	70
890-1819-6	C-1118	66 S1-	71
890-1819-7	C-1139	56 S1-	61 S1-
890-1819-8	C-1175	64 S1-	69 S1-
890-1819-9	C-1189	69 S1-	74
890-1819-10	C-1270	67 S1-	75
890-1819-11	C-1271	62 S1-	64 S1-
LCS 880-16794/2-A	Lab Control Sample	88	90
LCSD 880-16794/3-A	Lab Control Sample Dup	83	84

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16670/5-A

Matrix: Solid

Analysis Batch: 16696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16670

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/13/22 07:30	01/13/22 10:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/13/22 07:30	01/13/22 10:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/13/22 07:30	01/13/22 10:30	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/13/22 07:30	01/13/22 10:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/13/22 07:30	01/13/22 10:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/13/22 07:30	01/13/22 10:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	01/13/22 07:30	01/13/22 10:30	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/13/22 07:30	01/13/22 10:30	1

Lab Sample ID: LCS 880-16670/1-A

Matrix: Solid

Analysis Batch: 16696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08907		mg/Kg		89	70 - 130
Toluene	0.100	0.08594		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08547		mg/Kg		85	70 - 130
m,p-Xylenes	0.200	0.1802		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08657		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-16670/2-A

Matrix: Solid

Analysis Batch: 16696

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16670

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08969		mg/Kg		90	70 - 130	1	35
Toluene	0.100	0.08301		mg/Kg		83	70 - 130	3	35
Ethylbenzene	0.100	0.08614		mg/Kg		86	70 - 130	1	35
m,p-Xylenes	0.200	0.1812		mg/Kg		91	70 - 130	1	35
o-Xylene	0.100	0.08658		mg/Kg		87	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-10144-A-1-A MS

Matrix: Solid

Analysis Batch: 16696

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.101	0.1013		mg/Kg		100	70 - 130
Toluene	<0.00199	U	0.101	0.09266		mg/Kg		92	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-10144-A-1-A MS

Matrix: Solid

Analysis Batch: 16696

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U	0.101	0.09129		mg/Kg		90	70 - 130
m,p-Xylenes	<0.00398	U	0.202	0.1847		mg/Kg		91	70 - 130
o-Xylene	<0.00199	U	0.101	0.09666		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-10144-A-1-B MSD

Matrix: Solid

Analysis Batch: 16696

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16670

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09583		mg/Kg		96	70 - 130	6	35
Toluene	<0.00199	U	0.100	0.09116		mg/Kg		91	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.09161		mg/Kg		91	70 - 130	0	35
m,p-Xylenes	<0.00398	U	0.200	0.1938		mg/Kg		97	70 - 130	5	35
o-Xylene	<0.00199	U	0.100	0.09498		mg/Kg		95	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-16781/5-A

Matrix: Solid

Analysis Batch: 16936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16781

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/14/22 12:00	01/15/22 14:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/14/22 12:00	01/15/22 14:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/14/22 12:00	01/15/22 14:19	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/14/22 12:00	01/15/22 14:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/14/22 12:00	01/15/22 14:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/14/22 12:00	01/15/22 14:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130	01/14/22 12:00	01/15/22 14:19	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/14/22 12:00	01/15/22 14:19	1

Lab Sample ID: LCS 880-16781/1-A

Matrix: Solid

Analysis Batch: 16936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16781

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1229		mg/Kg		123	70 - 130
Toluene	0.100	0.1125		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.09984		mg/Kg		100	70 - 130
m,p-Xylenes	0.200	0.2092		mg/Kg		105	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-16781/1-A

Matrix: Solid

Analysis Batch: 16936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16781

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.1024		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-16781/2-A

Matrix: Solid

Analysis Batch: 16936

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16781

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1148		mg/Kg		115	70 - 130	7	35
Toluene	0.100	0.1243		mg/Kg		124	70 - 130	10	35
Ethylbenzene	0.100	0.1081		mg/Kg		108	70 - 130	8	35
m,p-Xylenes	0.200	0.2255		mg/Kg		113	70 - 130	8	35
o-Xylene	0.100	0.1097		mg/Kg		110	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-10224-A-1-A MS

Matrix: Solid

Analysis Batch: 16936

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16781

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0996	0.1112		mg/Kg		112	70 - 130
Toluene	<0.00200	U	0.0996	0.09628		mg/Kg		97	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.08236		mg/Kg		83	70 - 130
m,p-Xylenes	<0.00401	U	0.199	0.1454		mg/Kg		73	70 - 130
o-Xylene	<0.00200	U	0.0996	0.09945		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-10224-A-1-B MSD

Matrix: Solid

Analysis Batch: 16936

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16781

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1161		mg/Kg		117	70 - 130	4	35
Toluene	<0.00200	U	0.0996	0.1048		mg/Kg		105	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.0996	0.09134		mg/Kg		92	70 - 130	10	35
m,p-Xylenes	<0.00401	U	0.199	0.1712		mg/Kg		86	70 - 130	16	35
o-Xylene	<0.00200	U	0.0996	0.1112		mg/Kg		112	70 - 130	11	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-10224-A-1-B MSD

Matrix: Solid

Analysis Batch: 16936

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16781

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	125		70 - 130

Lab Sample ID: MB 880-16869/5-A

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16869

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 11:39	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 11:39	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 11:39	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/17/22 07:15	01/17/22 11:39	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 11:39	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/17/22 07:15	01/17/22 11:39	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	70		70 - 130	01/17/22 07:15	01/17/22 11:39	1			
1,4-Difluorobenzene (Surr)	92		70 - 130	01/17/22 07:15	01/17/22 11:39	1			

Lab Sample ID: LCS 880-16869/1-A

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16869

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.1205		mg/Kg		120	70 - 130		
Toluene	0.100	0.1091		mg/Kg		109	70 - 130		
Ethylbenzene	0.100	0.09424		mg/Kg		94	70 - 130		
m,p-Xylenes	0.200	0.1968		mg/Kg		98	70 - 130		
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130		

	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	86		70 - 130						
1,4-Difluorobenzene (Surr)	103		70 - 130						

Lab Sample ID: LCSD 880-16869/2-A

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16869

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1258		mg/Kg		126	70 - 130	4	35	
Toluene	0.100	0.1142		mg/Kg		114	70 - 130	5	35	
Ethylbenzene	0.100	0.09901		mg/Kg		99	70 - 130	5	35	
m,p-Xylenes	0.200	0.2072		mg/Kg		104	70 - 130	5	35	
o-Xylene	0.100	0.1059		mg/Kg		106	70 - 130	5	35	

	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	87		70 - 130							

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-16869/2-A

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16869

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1829-A-1-A MS

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1829-A-1-B MSD

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: LCS 880-16794/2-A

Matrix: Solid

Analysis Batch: 16940

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	810.8		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	861.4		mg/Kg		86	70 - 130

Surrogate	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-16794/3-A

Matrix: Solid

Analysis Batch: 16940

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	780.7		mg/Kg		78	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	827.4		mg/Kg		83	70 - 130	4	20

Surrogate	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	83		70 - 130
o-Terphenyl (Surr)	84		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1818-A-1-E MS

Matrix: Solid

Analysis Batch: 16940

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16794

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1171		mg/Kg		116	70 - 130		
Diesel Range Organics (Over C10-C28)	62.5		996	1032		mg/Kg		97	70 - 130		

Lab Sample ID: 890-1818-A-1-F MSD

Matrix: Solid

Analysis Batch: 16940

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16794

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1097		mg/Kg		108	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	62.5		999	1054		mg/Kg		99	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	68	S1-	70 - 130								
o-Terphenyl (Surr)	68	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16761/1-A

Matrix: Solid

Analysis Batch: 16927

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/15/22 23:39	1

Lab Sample ID: LCS 880-16761/2-A

Matrix: Solid

Analysis Batch: 16927

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	267.8		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-16761/3-A

Matrix: Solid

Analysis Batch: 16927

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	269.6		mg/Kg		108	90 - 110	1	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1816-A-10-F MS

Matrix: Solid

Analysis Batch: 16927

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1210		253	1407	4	mg/Kg		78	90 - 110

Lab Sample ID: 890-1816-A-10-G MSD

Matrix: Solid

Analysis Batch: 16927

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1210		253	1406	4	mg/Kg		78	90 - 110	0	20

Lab Sample ID: MB 880-16757/1-A

Matrix: Solid

Analysis Batch: 16930

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/16/22 19:33	1

Lab Sample ID: LCS 880-16757/2-A

Matrix: Solid

Analysis Batch: 16930

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.8		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-16757/3-A

Matrix: Solid

Analysis Batch: 16930

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	255.7		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 890-1818-A-4-D MS

Matrix: Solid

Analysis Batch: 16930

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	17.5		252	272.6		mg/Kg		101	90 - 110

Lab Sample ID: 890-1818-A-4-E MSD

Matrix: Solid

Analysis Batch: 16930

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	17.5		252	254.9		mg/Kg		94	90 - 110	7	20

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

GC VOA

Prep Batch: 16670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-1	C-1134	Total/NA	Solid	5035	
890-1819-2	C-1135	Total/NA	Solid	5035	
890-1819-3	C-1136	Total/NA	Solid	5035	
890-1819-4	C-1137	Total/NA	Solid	5035	
890-1819-5	C-1113	Total/NA	Solid	5035	
MB 880-16670/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16670/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16670/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10144-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-10144-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-1	C-1134	Total/NA	Solid	8021B	16670
890-1819-2	C-1135	Total/NA	Solid	8021B	16670
890-1819-3	C-1136	Total/NA	Solid	8021B	16670
890-1819-4	C-1137	Total/NA	Solid	8021B	16670
890-1819-5	C-1113	Total/NA	Solid	8021B	16670
MB 880-16670/5-A	Method Blank	Total/NA	Solid	8021B	16670
LCS 880-16670/1-A	Lab Control Sample	Total/NA	Solid	8021B	16670
LCSD 880-16670/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16670
880-10144-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	16670
880-10144-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16670

Prep Batch: 16781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-6	C-1118	Total/NA	Solid	5035	
890-1819-7	C-1139	Total/NA	Solid	5035	
890-1819-8	C-1175	Total/NA	Solid	5035	
890-1819-9	C-1189	Total/NA	Solid	5035	
890-1819-10	C-1270	Total/NA	Solid	5035	
MB 880-16781/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16781/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16781/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10224-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-10224-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 16869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-11	C-1271	Total/NA	Solid	5035	
MB 880-16869/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16869/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16869/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 16936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-6	C-1118	Total/NA	Solid	8021B	16781
890-1819-7	C-1139	Total/NA	Solid	8021B	16781
890-1819-8	C-1175	Total/NA	Solid	8021B	16781
890-1819-9	C-1189	Total/NA	Solid	8021B	16781
890-1819-10	C-1270	Total/NA	Solid	8021B	16781

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 16936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16781/5-A	Method Blank	Total/NA	Solid	8021B	16781
LCS 880-16781/1-A	Lab Control Sample	Total/NA	Solid	8021B	16781
LCSD 880-16781/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16781
880-10224-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	16781
880-10224-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16781

Analysis Batch: 16968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-11	C-1271	Total/NA	Solid	8021B	16869
MB 880-16869/5-A	Method Blank	Total/NA	Solid	8021B	16869
LCS 880-16869/1-A	Lab Control Sample	Total/NA	Solid	8021B	16869
LCSD 880-16869/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16869
890-1829-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1829-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	

Analysis Batch: 17056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-1	C-1134	Total/NA	Solid	Total BTEX	
890-1819-2	C-1135	Total/NA	Solid	Total BTEX	
890-1819-3	C-1136	Total/NA	Solid	Total BTEX	
890-1819-4	C-1137	Total/NA	Solid	Total BTEX	
890-1819-5	C-1113	Total/NA	Solid	Total BTEX	
890-1819-6	C-1118	Total/NA	Solid	Total BTEX	
890-1819-7	C-1139	Total/NA	Solid	Total BTEX	
890-1819-8	C-1175	Total/NA	Solid	Total BTEX	
890-1819-9	C-1189	Total/NA	Solid	Total BTEX	
890-1819-10	C-1270	Total/NA	Solid	Total BTEX	
890-1819-11	C-1271	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 16702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-2	C-1135	Total/NA	Solid	8015B NM	16788

Prep Batch: 16788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-2	C-1135	Total/NA	Solid	8015NM Prep	

Prep Batch: 16794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-1	C-1134	Total/NA	Solid	8015NM Prep	
890-1819-3	C-1136	Total/NA	Solid	8015NM Prep	
890-1819-4	C-1137	Total/NA	Solid	8015NM Prep	
890-1819-5	C-1113	Total/NA	Solid	8015NM Prep	
890-1819-6	C-1118	Total/NA	Solid	8015NM Prep	
890-1819-7	C-1139	Total/NA	Solid	8015NM Prep	
890-1819-8	C-1175	Total/NA	Solid	8015NM Prep	
890-1819-9	C-1189	Total/NA	Solid	8015NM Prep	
890-1819-10	C-1270	Total/NA	Solid	8015NM Prep	
890-1819-11	C-1271	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 16794 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-16794/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1818-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1818-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-1	C-1134	Total/NA	Solid	8015B NM	16794
890-1819-3	C-1136	Total/NA	Solid	8015B NM	16794
890-1819-4	C-1137	Total/NA	Solid	8015B NM	16794
890-1819-5	C-1113	Total/NA	Solid	8015B NM	16794
890-1819-6	C-1118	Total/NA	Solid	8015B NM	16794
890-1819-7	C-1139	Total/NA	Solid	8015B NM	16794
890-1819-8	C-1175	Total/NA	Solid	8015B NM	16794
890-1819-9	C-1189	Total/NA	Solid	8015B NM	16794
890-1819-10	C-1270	Total/NA	Solid	8015B NM	16794
890-1819-11	C-1271	Total/NA	Solid	8015B NM	16794
LCS 880-16794/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16794
LCSD 880-16794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16794
890-1818-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	16794
890-1818-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16794

Analysis Batch: 17055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-1	C-1134	Total/NA	Solid	8015 NM	
890-1819-2	C-1135	Total/NA	Solid	8015 NM	
890-1819-3	C-1136	Total/NA	Solid	8015 NM	
890-1819-4	C-1137	Total/NA	Solid	8015 NM	
890-1819-5	C-1113	Total/NA	Solid	8015 NM	
890-1819-6	C-1118	Total/NA	Solid	8015 NM	
890-1819-7	C-1139	Total/NA	Solid	8015 NM	
890-1819-8	C-1175	Total/NA	Solid	8015 NM	
890-1819-9	C-1189	Total/NA	Solid	8015 NM	
890-1819-10	C-1270	Total/NA	Solid	8015 NM	
890-1819-11	C-1271	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-5	C-1113	Soluble	Solid	DI Leach	
890-1819-6	C-1118	Soluble	Solid	DI Leach	
890-1819-7	C-1139	Soluble	Solid	DI Leach	
890-1819-8	C-1175	Soluble	Solid	DI Leach	
890-1819-9	C-1189	Soluble	Solid	DI Leach	
890-1819-10	C-1270	Soluble	Solid	DI Leach	
890-1819-11	C-1271	Soluble	Solid	DI Leach	
MB 880-16757/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16757/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16757/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1818-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 16757 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1818-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 16761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-1	C-1134	Soluble	Solid	DI Leach	
890-1819-2	C-1135	Soluble	Solid	DI Leach	
890-1819-3	C-1136	Soluble	Solid	DI Leach	
890-1819-4	C-1137	Soluble	Solid	DI Leach	
MB 880-16761/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16761/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16761/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1816-A-10-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1816-A-10-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 16927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-1	C-1134	Soluble	Solid	300.0	16761
890-1819-2	C-1135	Soluble	Solid	300.0	16761
890-1819-3	C-1136	Soluble	Solid	300.0	16761
890-1819-4	C-1137	Soluble	Solid	300.0	16761
MB 880-16761/1-A	Method Blank	Soluble	Solid	300.0	16761
LCS 880-16761/2-A	Lab Control Sample	Soluble	Solid	300.0	16761
LCSD 880-16761/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16761
890-1816-A-10-F MS	Matrix Spike	Soluble	Solid	300.0	16761
890-1816-A-10-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	16761

Analysis Batch: 16930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1819-5	C-1113	Soluble	Solid	300.0	16757
890-1819-6	C-1118	Soluble	Solid	300.0	16757
890-1819-7	C-1139	Soluble	Solid	300.0	16757
890-1819-8	C-1175	Soluble	Solid	300.0	16757
890-1819-9	C-1189	Soluble	Solid	300.0	16757
890-1819-10	C-1270	Soluble	Solid	300.0	16757
890-1819-11	C-1271	Soluble	Solid	300.0	16757
MB 880-16757/1-A	Method Blank	Soluble	Solid	300.0	16757
LCS 880-16757/2-A	Lab Control Sample	Soluble	Solid	300.0	16757
LCSD 880-16757/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16757
890-1818-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	16757
890-1818-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	16757

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1134**Lab Sample ID: 890-1819-1****Date Collected: 01/10/22 13:30****Matrix: Solid****Date Received: 01/11/22 15:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16670	01/13/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16696	01/13/22 15:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16794	01/13/22 14:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16940	01/15/22 15:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16761	01/13/22 12:05	CH	XEN MID
Soluble	Analysis	300.0		1			16927	01/16/22 02:28	SC	XEN MID

Client Sample ID: C-1135**Lab Sample ID: 890-1819-2****Date Collected: 01/10/22 13:37****Matrix: Solid****Date Received: 01/11/22 15:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16670	01/13/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16696	01/13/22 15:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16788	01/13/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16702	01/14/22 09:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16761	01/13/22 12:05	CH	XEN MID
Soluble	Analysis	300.0		1			16927	01/16/22 02:35	SC	XEN MID

Client Sample ID: C-1136**Lab Sample ID: 890-1819-3****Date Collected: 01/10/22 13:42****Matrix: Solid****Date Received: 01/11/22 15:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16670	01/13/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16696	01/13/22 15:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16794	01/13/22 14:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16940	01/15/22 16:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16761	01/13/22 12:05	CH	XEN MID
Soluble	Analysis	300.0		1			16927	01/16/22 02:42	SC	XEN MID

Client Sample ID: C-1137**Lab Sample ID: 890-1819-4****Date Collected: 01/10/22 13:48****Matrix: Solid****Date Received: 01/11/22 15:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16670	01/13/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16696	01/13/22 16:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:41	AJ	XEN MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1137

Lab Sample ID: 890-1819-4

Date Collected: 01/10/22 13:48

Matrix: Solid

Date Received: 01/11/22 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16794	01/13/22 14:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16940	01/15/22 16:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16761	01/13/22 12:05	CH	XEN MID
Soluble	Analysis	300.0		1			16927	01/16/22 02:49	SC	XEN MID

Client Sample ID: C-1113

Lab Sample ID: 890-1819-5

Date Collected: 01/11/22 09:45

Matrix: Solid

Date Received: 01/11/22 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16670	01/13/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16696	01/13/22 16:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16794	01/13/22 14:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16940	01/15/22 16:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16757	01/13/22 11:52	SC	XEN MID
Soluble	Analysis	300.0		1			16930	01/17/22 00:17	CH	XEN MID

Client Sample ID: C-1118

Lab Sample ID: 890-1819-6

Date Collected: 01/11/22 08:10

Matrix: Solid

Date Received: 01/11/22 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16781	01/14/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/15/22 22:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16794	01/13/22 14:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16940	01/15/22 17:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16757	01/13/22 11:52	SC	XEN MID
Soluble	Analysis	300.0		1			16930	01/17/22 00:29	CH	XEN MID

Client Sample ID: C-1139

Lab Sample ID: 890-1819-7

Date Collected: 01/11/22 08:25

Matrix: Solid

Date Received: 01/11/22 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16781	01/14/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/15/22 22:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16794	01/13/22 14:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16940	01/15/22 17:52	AJ	XEN MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1139**Lab Sample ID: 890-1819-7****Date Collected: 01/11/22 08:25****Matrix: Solid****Date Received: 01/11/22 15:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	16757	01/13/22 11:52	SC	XEN MID
Soluble	Analysis	300.0		1			16930	01/17/22 00:41	CH	XEN MID

Client Sample ID: C-1175**Lab Sample ID: 890-1819-8****Date Collected: 01/11/22 09:55****Matrix: Solid****Date Received: 01/11/22 15:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16781	01/14/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/15/22 23:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16794	01/13/22 14:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16940	01/15/22 18:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	16757	01/13/22 11:52	SC	XEN MID
Soluble	Analysis	300.0		1			16930	01/17/22 00:53	CH	XEN MID

Client Sample ID: C-1189**Lab Sample ID: 890-1819-9****Date Collected: 01/11/22 08:45****Matrix: Solid****Date Received: 01/11/22 15:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	16781	01/14/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/15/22 23:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16794	01/13/22 14:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16940	01/15/22 18:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16757	01/13/22 11:52	SC	XEN MID
Soluble	Analysis	300.0		1			16930	01/17/22 01:05	CH	XEN MID

Client Sample ID: C-1270**Lab Sample ID: 890-1819-10****Date Collected: 01/11/22 11:14****Matrix: Solid****Date Received: 01/11/22 15:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	16781	01/14/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/16/22 00:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16794	01/13/22 14:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16940	01/15/22 18:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16757	01/13/22 11:52	SC	XEN MID
Soluble	Analysis	300.0		1			16930	01/17/22 01:17	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Client Sample ID: C-1271
Date Collected: 01/11/22 13:48
Date Received: 01/11/22 15:57

Lab Sample ID: 890-1819-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16869	01/17/22 07:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/17/22 12:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16794	01/13/22 14:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16940	01/15/22 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	16757	01/13/22 11:52	SC	XEN MID
Soluble	Analysis	300.0		1			16930	01/17/22 01:29	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1819-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1819-1	C-1134	Solid	01/10/22 13:30	01/11/22 15:57
890-1819-2	C-1135	Solid	01/10/22 13:37	01/11/22 15:57
890-1819-3	C-1136	Solid	01/10/22 13:42	01/11/22 15:57
890-1819-4	C-1137	Solid	01/10/22 13:48	01/11/22 15:57
890-1819-5	C-1113	Solid	01/11/22 09:45	01/11/22 15:57
890-1819-6	C-1118	Solid	01/11/22 08:10	01/11/22 15:57
890-1819-7	C-1139	Solid	01/11/22 08:25	01/11/22 15:57
890-1819-8	C-1175	Solid	01/11/22 09:55	01/11/22 15:57
890-1819-9	C-1189	Solid	01/11/22 08:45	01/11/22 15:57
890-1819-10	C-1270	Solid	01/11/22 11:14	01/11/22 15:57
890-1819-11	C-1271	Solid	01/11/22 13:48	01/11/22 15:57

Varson & Associates, Inc.
Environmental Consultants



880-1819 Chain of Custody

Data Reported to:

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄

NaOH

ICE

UNPRESERVED

ANALYSES

BTEX

TRPH 418

TPH 1005

GASOLINE MOD 8015

DIESEL - MOD 8015

OIL - MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PESTICIDES

TCLP - PCBs

TCLP - METALS (RCRA)

TOTAL METALS (RCRA)

LEAD - TOTAL

RCL

TDS

TOX

TSS

PH

EXPLOSIVES

CHLORIDES

ANIONS

ALKALINITY

FIELD NOTES

DATE: 11/11/2021

PAGE 1 OF 1

PO#:

LAB WORK ORDER#:

PROJECT LOCATION OR NAME: PALMID AST

LAI PROJECT #: 21-0105-02

COLLECTOR: BSY

CHAIN-OF-CUSTODY

No. 2251

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	UNPRESERVED	ANALYSES	TURN AROUND TIME	LABORATORY USE ONLY
C-1134 3.5		11/10/21	1330	S	1							BTEX ☒ MTBE ☒ TRPH 418 ☒ TPH 1005 ☒ GASOLINE MOD 8015 ☒ DIESEL - MOD 8015 ☒ OIL - MOD 8015 ☒ VOC 8260 ☒ SVOC 8270 ☒ 8081 PESTICIDES ☒ 8082 PESTICIDES ☒ TCLP - PCBs ☒ TCLP - METALS (RCRA) ☒ TOTAL METALS (RCRA) ☒ LEAD - TOTAL ☒ RCL ☒ TDS ☒ TOX ☒ TSS ☒ PH ☒ EXPLOSIVES ☒ CHLORIDES ☒ ANIONS ☒ ALKALINITY ☒	1 DAY ☒ 2 DAY ☐ OTHER ☐	RECEIVED BY (Signature) 11/11/21 1557 RECEIVED BY (Signature) 11/11/21 1557
C-1135 2.5			1337											
C-1136 2.5			1342											
C-1137 2.5			1348											
C-1113 2.5		11/11/21	0945											
C-1118 4.1			0810											
C-1139 4.1			0825											
C-1175 4.1			0955											
C-1189 4.1			0845											
C-1270 0-1.5			1114											
C-1271 0-1.5			1348											
TOTAL 11														

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1819-1

SDG Number: 21-0105-02

Login Number: 1819

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1819-1

SDG Number: 21-0105-02

Login Number: 1819

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/13/22 11:26 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1826-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: PALMIO AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/18/2022 2:17:48 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Laboratory Job ID: 890-1826-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Job ID: 890-1826-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-1826-1**

Receipt

The samples were received on 1/12/2022 3:39 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 21.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16823 and analytical batch 880-16837 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-10245-A-41-A), (880-10245-A-41-B MS) and (880-10245-A-41-C MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Client Sample ID: C-1275 0-1.5

Lab Sample ID: 890-1826-1

Date Collected: 01/12/22 09:14

Matrix: Solid

Date Received: 01/12/22 15:39

Sample Depth: 0 - 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/14/22 10:00	01/14/22 23:51	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/14/22 10:00	01/14/22 23:51	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/14/22 10:00	01/14/22 23:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/14/22 10:00	01/14/22 23:51	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/14/22 10:00	01/14/22 23:51	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/14/22 10:00	01/14/22 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/14/22 10:00	01/14/22 23:51	1
1,4-Difluorobenzene (Surr)	75		70 - 130	01/14/22 10:00	01/14/22 23:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/17/22 14:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/17/22 14:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/17/22 09:12	01/17/22 18:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/17/22 09:12	01/17/22 18:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/17/22 09:12	01/17/22 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	63	S1-	70 - 130	01/17/22 09:12	01/17/22 18:49	1
o-Terphenyl (Surr)	60	S1-	70 - 130	01/17/22 09:12	01/17/22 18:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.5		5.05	mg/Kg			01/18/22 11:21	1

Client Sample ID: C-1275-2 0-4.1

Lab Sample ID: 890-1826-2

Date Collected: 01/12/22 09:30

Matrix: Solid

Date Received: 01/12/22 15:39

Sample Depth: 0 - 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/14/22 10:00	01/15/22 00:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/14/22 10:00	01/15/22 00:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/14/22 10:00	01/15/22 00:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/14/22 10:00	01/15/22 00:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/14/22 10:00	01/15/22 00:11	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/14/22 10:00	01/15/22 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	01/14/22 10:00	01/15/22 00:11	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Client Sample ID: C-1275-2 0-4.1

Lab Sample ID: 890-1826-2

Date Collected: 01/12/22 09:30

Matrix: Solid

Date Received: 01/12/22 15:39

Sample Depth: 0 - 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	01/14/22 10:00	01/15/22 00:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/17/22 14:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/17/22 14:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/17/22 09:12	01/17/22 19:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/17/22 09:12	01/17/22 19:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/17/22 09:12	01/17/22 19:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	65	S1-	70 - 130			01/17/22 09:12	01/17/22 19:10	1
o-Terphenyl (Surr)	65	S1-	70 - 130			01/17/22 09:12	01/17/22 19:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	351		4.99	mg/Kg			01/18/22 11:29	1

Client Sample ID: C-326 0-4.1

Lab Sample ID: 890-1826-3

Date Collected: 01/12/22 11:01

Matrix: Solid

Date Received: 01/12/22 15:39

Sample Depth: 0 - 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/14/22 10:00	01/15/22 00:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/14/22 10:00	01/15/22 00:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/14/22 10:00	01/15/22 00:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/14/22 10:00	01/15/22 00:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/14/22 10:00	01/15/22 00:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/14/22 10:00	01/15/22 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	01/14/22 10:00	01/15/22 00:32	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/14/22 10:00	01/15/22 00:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/17/22 14:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/17/22 14:15	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Client Sample ID: C-326 0-4.1

Lab Sample ID: 890-1826-3

Date Collected: 01/12/22 11:01

Matrix: Solid

Date Received: 01/12/22 15:39

Sample Depth: 0 - 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/17/22 09:12	01/17/22 19:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/17/22 09:12	01/17/22 19:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/17/22 09:12	01/17/22 19:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	64	S1-	70 - 130			01/17/22 09:12	01/17/22 19:31	1
o-Terphenyl (Surr)	65	S1-	70 - 130			01/17/22 09:12	01/17/22 19:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	256		5.04	mg/Kg			01/18/22 11:36	1

Client Sample ID: C-331 0-4.1

Lab Sample ID: 890-1826-4

Date Collected: 01/12/22 12:38

Matrix: Solid

Date Received: 01/12/22 15:39

Sample Depth: 0 - 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/17/22 07:15	01/17/22 14:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/17/22 07:15	01/17/22 14:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/17/22 07:15	01/17/22 14:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/17/22 07:15	01/17/22 14:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/17/22 07:15	01/17/22 14:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/17/22 07:15	01/17/22 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			01/17/22 07:15	01/17/22 14:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130			01/17/22 07:15	01/17/22 14:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/17/22 14:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/17/22 14:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/14/22 15:24	01/16/22 20:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/14/22 15:24	01/16/22 20:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/14/22 15:24	01/16/22 20:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			01/14/22 15:24	01/16/22 20:47	1
o-Terphenyl (Surr)	85		70 - 130			01/14/22 15:24	01/16/22 20:47	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Client Sample ID: C-331 0-4.1

Lab Sample ID: 890-1826-4

Date Collected: 01/12/22 12:38

Matrix: Solid

Date Received: 01/12/22 15:39

Sample Depth: 0 - 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		5.00	mg/Kg			01/18/22 11:44	1

Client Sample ID: C-301 4.1

Lab Sample ID: 890-1826-5

Date Collected: 01/12/22 13:08

Matrix: Solid

Date Received: 01/12/22 15:39

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 15:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 15:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 15:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/17/22 07:15	01/17/22 15:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 15:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/17/22 07:15	01/17/22 15:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			01/17/22 07:15	01/17/22 15:21	1
1,4-Difluorobenzene (Surr)	105		70 - 130			01/17/22 07:15	01/17/22 15:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/17/22 14:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/17/22 14:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/14/22 11:03	01/15/22 03:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/14/22 11:03	01/15/22 03:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/14/22 11:03	01/15/22 03:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			01/14/22 11:03	01/15/22 03:06	1
o-Terphenyl (Surr)	96		70 - 130			01/14/22 11:03	01/15/22 03:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	882		5.00	mg/Kg			01/18/22 11:51	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Client Sample ID: C-956 2'

Lab Sample ID: 890-1826-6

Date Collected: 01/12/22 13:46

Matrix: Solid

Date Received: 01/12/22 15:39

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/17/22 07:15	01/17/22 15:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/17/22 07:15	01/17/22 15:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/17/22 07:15	01/17/22 15:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/17/22 07:15	01/17/22 15:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/17/22 07:15	01/17/22 15:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/17/22 07:15	01/17/22 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/17/22 07:15	01/17/22 15:48	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/17/22 07:15	01/17/22 15:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/17/22 14:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/17/22 14:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/14/22 11:03	01/15/22 03:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/14/22 11:03	01/15/22 03:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/14/22 11:03	01/15/22 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	01/14/22 11:03	01/15/22 03:27	1
o-Terphenyl (Surr)	91		70 - 130	01/14/22 11:03	01/15/22 03:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		5.00	mg/Kg			01/18/22 11:59	1

Client Sample ID: C-978 2'

Lab Sample ID: 890-1826-7

Date Collected: 01/12/22 13:52

Matrix: Solid

Date Received: 01/12/22 15:39

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 16:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 16:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 16:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/17/22 07:15	01/17/22 16:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 16:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/17/22 07:15	01/17/22 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	01/17/22 07:15	01/17/22 16:16	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Client Sample ID: C-978 2'

Lab Sample ID: 890-1826-7

Date Collected: 01/12/22 13:52

Matrix: Solid

Date Received: 01/12/22 15:39

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	01/17/22 07:15	01/17/22 16:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/17/22 14:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/17/22 14:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/14/22 11:03	01/15/22 03:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/14/22 11:03	01/15/22 03:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/14/22 11:03	01/15/22 03:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			01/14/22 11:03	01/15/22 03:48	1
o-Terphenyl (Surr)	91		70 - 130			01/14/22 11:03	01/15/22 03:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	335		4.97	mg/Kg			01/18/22 12:07	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)				
880-10223-A-61-A MS	Matrix Spike	102	119				
880-10223-A-61-B MSD	Matrix Spike Duplicate	118	111				
890-1826-1	C-1275 0-1.5	109	75				
890-1826-2	C-1275-2 0-4.1	127	104				
890-1826-3	C-326 0-4.1	117	102				
890-1826-4	C-331 0-4.1	95	102				
890-1826-5	C-301 4.1	101	105				
890-1826-6	C-956 2'	98	106				
890-1826-7	C-978 2'	104	105				
LCS 880-16823/1-A	Lab Control Sample	104	99				
LCS 880-16869/1-A	Lab Control Sample	86	103				
LCSD 880-16823/2-A	Lab Control Sample Dup	109	97				
LCSD 880-16869/2-A	Lab Control Sample Dup	87	103				
MB 880-16823/5-A	Method Blank	114	100				
MB 880-16869/5-A	Method Blank	70	92				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
890-1829-A-1-A MS	Matrix Spike						
890-1829-A-1-B MSD	Matrix Spike Duplicate						
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)				
880-10223-A-61-F MS	Matrix Spike	95	95				
880-10223-A-61-G MSD	Matrix Spike Duplicate	106	91				
880-10245-A-41-B MS	Matrix Spike	68 S1-	61 S1-				
880-10245-A-41-C MSD	Matrix Spike Duplicate	67 S1-	60 S1-				
890-1826-1	C-1275 0-1.5	63 S1-	60 S1-				
890-1826-2	C-1275-2 0-4.1	65 S1-	65 S1-				
890-1826-3	C-326 0-4.1	64 S1-	65 S1-				
890-1826-4	C-331 0-4.1	83	85				
890-1826-5	C-301 4.1	98	96				
890-1826-6	C-956 2'	94	91				
890-1826-7	C-978 2'	92	91				
890-1830-A-1-E MS	Matrix Spike	67 S1-	60 S1-				

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1826-1

Project/Site: PALMIO AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1830-A-1-F MSD	Matrix Spike Duplicate	77	68 S1-
LCS 880-16899/2-A	Lab Control Sample	113	111
LCS 880-16978/2-A	Lab Control Sample	98	92
LCSD 880-16899/3-A	Lab Control Sample Dup	103	103
LCSD 880-16978/3-A	Lab Control Sample Dup	91	89
MB 880-16899/1-A	Method Blank	75	80
MB 880-16978/1-A	Method Blank	74	77
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-16858/2-A	Lab Control Sample	111	103
LCSD 880-16858/3-A	Lab Control Sample Dup	117	107
MB 880-16858/1-A	Method Blank	113	107
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16823/5-A

Matrix: Solid

Analysis Batch: 16837

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16823

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/14/22 10:00	01/14/22 16:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/14/22 10:00	01/14/22 16:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/14/22 10:00	01/14/22 16:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/14/22 10:00	01/14/22 16:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/14/22 10:00	01/14/22 16:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/14/22 10:00	01/14/22 16:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	01/14/22 10:00	01/14/22 16:05	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/14/22 10:00	01/14/22 16:05	1

Lab Sample ID: LCS 880-16823/1-A

Matrix: Solid

Analysis Batch: 16837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09700		mg/Kg		97	70 - 130
Toluene	0.100	0.09589		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1075		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2063		mg/Kg		103	70 - 130
o-Xylene	0.100	0.09846		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-16823/2-A

Matrix: Solid

Analysis Batch: 16837

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16823

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09912		mg/Kg		99	70 - 130	2	35
Toluene	0.100	0.1061		mg/Kg		106	70 - 130	10	35
Ethylbenzene	0.100	0.1140		mg/Kg		114	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2090		mg/Kg		105	70 - 130	1	35
o-Xylene	0.100	0.1059		mg/Kg		106	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-10223-A-61-A MS

Matrix: Solid

Analysis Batch: 16837

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1 F2	0.0996	0.04197	F1	mg/Kg		42	70 - 130
Toluene	<0.00200	U	0.0996	0.1036		mg/Kg		104	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-10223-A-61-A MS

Matrix: Solid

Analysis Batch: 16837

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.0996	0.09177		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.199	0.06377	F1	mg/Kg		32	70 - 130
o-Xylene	<0.00200	U F1 F2	0.0996	0.01580	F1	mg/Kg		16	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: 880-10223-A-61-B MSD

Matrix: Solid

Analysis Batch: 16837

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.100	0.08709	F2	mg/Kg		87	70 - 130	70	35
Toluene	<0.00200	U	0.100	0.08750		mg/Kg		87	70 - 130	17	35
Ethylbenzene	<0.00200	U	0.100	0.07609		mg/Kg		76	70 - 130	19	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.1433	F2	mg/Kg		72	70 - 130	77	35
o-Xylene	<0.00200	U F1 F2	0.100	0.07202	F2	mg/Kg		72	70 - 130	128	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: MB 880-16869/5-A

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16869

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 11:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 11:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/17/22 07:15	01/17/22 11:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 11:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/17/22 07:15	01/17/22 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	01/17/22 07:15	01/17/22 11:39	1
1,4-Difluorobenzene (Surr)	92		70 - 130	01/17/22 07:15	01/17/22 11:39	1

Lab Sample ID: LCS 880-16869/1-A

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1205		mg/Kg		120	70 - 130
Toluene	0.100	0.1091		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.09424		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-16869/1-A

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-16869/2-A

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16869

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1258		mg/Kg		126	70 - 130	4	35
Toluene	0.100	0.1142		mg/Kg		114	70 - 130	5	35
Ethylbenzene	0.100	0.09901		mg/Kg		99	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2072		mg/Kg		104	70 - 130	5	35
o-Xylene	0.100	0.1059		mg/Kg		106	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1829-A-1-A MS

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1829-A-1-B MSD

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-16858/1-A

Matrix: Solid

Analysis Batch: 16812

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16858

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/14/22 11:03	01/14/22 19:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/14/22 11:03	01/14/22 19:07	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-16858/1-A

Matrix: Solid

Analysis Batch: 16812

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16858

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/14/22 11:03	01/14/22 19:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130	01/14/22 11:03	01/14/22 19:07	1
o-Terphenyl (Surr)	107		70 - 130	01/14/22 11:03	01/14/22 19:07	1

Lab Sample ID: LCS 880-16858/2-A

Matrix: Solid

Analysis Batch: 16812

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16858

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	929.7		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1030		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-16858/3-A

Matrix: Solid

Analysis Batch: 16812

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16858

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	999.2		mg/Kg		100	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1042		mg/Kg		104	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	117		70 - 130
o-Terphenyl (Surr)	107		70 - 130

Lab Sample ID: 880-10223-A-61-F MS

Matrix: Solid

Analysis Batch: 16812

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16858

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1097		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1203		mg/Kg		120	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	95		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-10223-A-61-G MSD

Matrix: Solid

Analysis Batch: 16812

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16858

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1088		mg/Kg		107	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1216		mg/Kg		122	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	106		70 - 130								
o-Terphenyl (Surr)	91		70 - 130								

Lab Sample ID: MB 880-16899/1-A

Matrix: Solid

Analysis Batch: 16951

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16899

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/14/22 15:24	01/16/22 12:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/14/22 15:24	01/16/22 12:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/14/22 15:24	01/16/22 12:05	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			01/14/22 15:24	01/16/22 12:05	1
o-Terphenyl (Surr)	80		70 - 130			01/14/22 15:24	01/16/22 12:05	1

Lab Sample ID: LCS 880-16899/2-A

Matrix: Solid

Analysis Batch: 16951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1148		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	929.4		mg/Kg		93	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	113		70 - 130						
o-Terphenyl (Surr)	111		70 - 130						

Lab Sample ID: LCSD 880-16899/3-A

Matrix: Solid

Analysis Batch: 16951

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16899

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	905.9		mg/Kg		91	70 - 130	3	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-16899/3-A

Matrix: Solid

Analysis Batch: 16951

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16899

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	103		70 - 130

Lab Sample ID: 880-10245-A-41-B MS

Matrix: Solid

Analysis Batch: 16951

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16899

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1173		mg/Kg		117	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	999	963.3		mg/Kg		92	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	68	S1-	70 - 130							
o-Terphenyl (Surr)	61	S1-	70 - 130							

Lab Sample ID: 880-10245-A-41-C MSD

Matrix: Solid

Analysis Batch: 16951

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16899

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1170		mg/Kg		117	70 - 130	0	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	956.6		mg/Kg		92	70 - 130	1	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	67	S1-	70 - 130									
o-Terphenyl (Surr)	60	S1-	70 - 130									

Lab Sample ID: MB 880-16978/1-A

Matrix: Solid

Analysis Batch: 16964

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16978

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/17/22 09:12	01/17/22 11:45	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/17/22 09:12	01/17/22 11:45	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/17/22 09:12	01/17/22 11:45	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	74		70 - 130			01/17/22 09:12	01/17/22 11:45	1		
o-Terphenyl (Surr)	77		70 - 130			01/17/22 09:12	01/17/22 11:45	1		

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-16978/2-A

Matrix: Solid

Analysis Batch: 16964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16978

Analyte			Spike	LCS	LCS	Unit	D	%Rec.		
			Added	Result	Qualifier			%Rec		
Gasoline Range Organics (GRO)-C6-C10			1000	1033		mg/Kg		103	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	878.7		mg/Kg		88	70 - 130	

Lab Sample ID: LCSD 880-16978/3-A

Matrix: Solid

Analysis Batch: 16964

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16978

			Spike	LCSD	LCSD				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1022		mg/Kg		102	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	894.7		mg/Kg		89	70 - 130	2	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	91		70 - 130								
o-Terphenyl (Surr)	89		70 - 130								

Lab Sample ID: 890-1830-A-1-E MS

Matrix: Solid

Analysis Batch: 16964

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16978

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	1350	F1	mg/Kg		135	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1144		mg/Kg		112	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	67	S1-	70 - 130								
o-Terphenyl (Surr)	60	S1-	70 - 130								

Lab Sample ID: 890-1830-A-1-F MSD

Matrix: Solid

Analysis Batch: 16964

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16978

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	1508	F1	mg/Kg		151	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1308		mg/Kg		129	70 - 130	13	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1830-A-1-F MSD

Matrix: Solid

Analysis Batch: 16964

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16978

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	68	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16762/1-A

Matrix: Solid

Analysis Batch: 16935

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			01/18/22 08:20	1	

Lab Sample ID: LCS 880-16762/2-A

Matrix: Solid

Analysis Batch: 16935

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike	LCS	LCS				%Rec.	
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	270.7		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-16762/3-A

Matrix: Solid

Analysis Batch: 16935

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte		Spike	LCSD	LCSD				%Rec.		RPD
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	270.6		mg/Kg		108	90 - 110	0	20	

Lab Sample ID: 890-1822-A-8-D MS

Matrix: Solid

Analysis Batch: 16935

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS				%Rec.	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	<5.01	U F1	251	291.8	F1	mg/Kg		115	90 - 110	

Lab Sample ID: 890-1822-A-8-E MSD

Matrix: Solid

Analysis Batch: 16935

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	<5.01	U F1	251	280.1		mg/Kg		110	90 - 110	4	20

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

GC VOA

Prep Batch: 16823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-1	C-1275 0-1.5	Total/NA	Solid	5035	
890-1826-2	C-1275-2 0-4.1	Total/NA	Solid	5035	
890-1826-3	C-326 0-4.1	Total/NA	Solid	5035	
MB 880-16823/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16823/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16823/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10223-A-61-A MS	Matrix Spike	Total/NA	Solid	5035	
880-10223-A-61-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-1	C-1275 0-1.5	Total/NA	Solid	8021B	16823
890-1826-2	C-1275-2 0-4.1	Total/NA	Solid	8021B	16823
890-1826-3	C-326 0-4.1	Total/NA	Solid	8021B	16823
MB 880-16823/5-A	Method Blank	Total/NA	Solid	8021B	16823
LCS 880-16823/1-A	Lab Control Sample	Total/NA	Solid	8021B	16823
LCSD 880-16823/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16823
880-10223-A-61-A MS	Matrix Spike	Total/NA	Solid	8021B	16823
880-10223-A-61-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16823

Prep Batch: 16869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-4	C-331 0-4.1	Total/NA	Solid	5035	
890-1826-5	C-301 4.1	Total/NA	Solid	5035	
890-1826-6	C-956 2'	Total/NA	Solid	5035	
890-1826-7	C-978 2'	Total/NA	Solid	5035	
MB 880-16869/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16869/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16869/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 16968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-4	C-331 0-4.1	Total/NA	Solid	8021B	16869
890-1826-5	C-301 4.1	Total/NA	Solid	8021B	16869
890-1826-6	C-956 2'	Total/NA	Solid	8021B	16869
890-1826-7	C-978 2'	Total/NA	Solid	8021B	16869
MB 880-16869/5-A	Method Blank	Total/NA	Solid	8021B	16869
LCS 880-16869/1-A	Lab Control Sample	Total/NA	Solid	8021B	16869
LCSD 880-16869/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16869
890-1829-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1829-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	

Analysis Batch: 17056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-1	C-1275 0-1.5	Total/NA	Solid	Total BTEX	
890-1826-2	C-1275-2 0-4.1	Total/NA	Solid	Total BTEX	
890-1826-3	C-326 0-4.1	Total/NA	Solid	Total BTEX	
890-1826-4	C-331 0-4.1	Total/NA	Solid	Total BTEX	
890-1826-5	C-301 4.1	Total/NA	Solid	Total BTEX	
890-1826-6	C-956 2'	Total/NA	Solid	Total BTEX	
890-1826-7	C-978 2'	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 16812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-5	C-301 4.1	Total/NA	Solid	8015B NM	16858
890-1826-6	C-956 2'	Total/NA	Solid	8015B NM	16858
890-1826-7	C-978 2'	Total/NA	Solid	8015B NM	16858
MB 880-16858/1-A	Method Blank	Total/NA	Solid	8015B NM	16858
LCS 880-16858/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16858
LCSD 880-16858/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16858
880-10223-A-61-F MS	Matrix Spike	Total/NA	Solid	8015B NM	16858
880-10223-A-61-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16858

Prep Batch: 16858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-5	C-301 4.1	Total/NA	Solid	8015NM Prep	
890-1826-6	C-956 2'	Total/NA	Solid	8015NM Prep	
890-1826-7	C-978 2'	Total/NA	Solid	8015NM Prep	
MB 880-16858/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16858/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16858/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10223-A-61-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10223-A-61-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 16899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-4	C-331 0-4.1	Total/NA	Solid	8015NM Prep	
MB 880-16899/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16899/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16899/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10245-A-41-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10245-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-4	C-331 0-4.1	Total/NA	Solid	8015B NM	16899
MB 880-16899/1-A	Method Blank	Total/NA	Solid	8015B NM	16899
LCS 880-16899/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16899
LCSD 880-16899/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16899
880-10245-A-41-B MS	Matrix Spike	Total/NA	Solid	8015B NM	16899
880-10245-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16899

Analysis Batch: 16964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-1	C-1275 0-1.5	Total/NA	Solid	8015B NM	16978
890-1826-2	C-1275-2 0-4.1	Total/NA	Solid	8015B NM	16978
890-1826-3	C-326 0-4.1	Total/NA	Solid	8015B NM	16978
MB 880-16978/1-A	Method Blank	Total/NA	Solid	8015B NM	16978
LCS 880-16978/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16978
LCSD 880-16978/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16978
890-1830-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	16978
890-1830-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16978

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 16978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-1	C-1275 0-1.5	Total/NA	Solid	8015NM Prep	
890-1826-2	C-1275-2 0-4.1	Total/NA	Solid	8015NM Prep	
890-1826-3	C-326 0-4.1	Total/NA	Solid	8015NM Prep	
MB 880-16978/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16978/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16978/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1830-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1830-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-1	C-1275 0-1.5	Total/NA	Solid	8015 NM	
890-1826-2	C-1275-2 0-4.1	Total/NA	Solid	8015 NM	
890-1826-3	C-326 0-4.1	Total/NA	Solid	8015 NM	
890-1826-4	C-331 0-4.1	Total/NA	Solid	8015 NM	
890-1826-5	C-301 4.1	Total/NA	Solid	8015 NM	
890-1826-6	C-956 2'	Total/NA	Solid	8015 NM	
890-1826-7	C-978 2'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-1	C-1275 0-1.5	Soluble	Solid	DI Leach	
890-1826-2	C-1275-2 0-4.1	Soluble	Solid	DI Leach	
890-1826-3	C-326 0-4.1	Soluble	Solid	DI Leach	
890-1826-4	C-331 0-4.1	Soluble	Solid	DI Leach	
890-1826-5	C-301 4.1	Soluble	Solid	DI Leach	
890-1826-6	C-956 2'	Soluble	Solid	DI Leach	
890-1826-7	C-978 2'	Soluble	Solid	DI Leach	
MB 880-16762/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16762/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16762/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1822-A-8-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1822-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 16935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1826-1	C-1275 0-1.5	Soluble	Solid	300.0	16762
890-1826-2	C-1275-2 0-4.1	Soluble	Solid	300.0	16762
890-1826-3	C-326 0-4.1	Soluble	Solid	300.0	16762
890-1826-4	C-331 0-4.1	Soluble	Solid	300.0	16762
890-1826-5	C-301 4.1	Soluble	Solid	300.0	16762
890-1826-6	C-956 2'	Soluble	Solid	300.0	16762
890-1826-7	C-978 2'	Soluble	Solid	300.0	16762
MB 880-16762/1-A	Method Blank	Soluble	Solid	300.0	16762
LCS 880-16762/2-A	Lab Control Sample	Soluble	Solid	300.0	16762
LCSD 880-16762/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16762
890-1822-A-8-D MS	Matrix Spike	Soluble	Solid	300.0	16762
890-1822-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	16762

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Client Sample ID: C-1275 0-1.5

Lab Sample ID: 890-1826-1

Date Collected: 01/12/22 09:14

Matrix: Solid

Date Received: 01/12/22 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	16823	01/14/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/14/22 23:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16978	01/17/22 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16964	01/17/22 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	16762	01/13/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		1			16935	01/18/22 11:21	CH	XEN MID

Client Sample ID: C-1275-2 0-4.1

Lab Sample ID: 890-1826-2

Date Collected: 01/12/22 09:30

Matrix: Solid

Date Received: 01/12/22 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16823	01/14/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 00:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16978	01/17/22 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16964	01/17/22 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16762	01/13/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		1			16935	01/18/22 11:29	CH	XEN MID

Client Sample ID: C-326 0-4.1

Lab Sample ID: 890-1826-3

Date Collected: 01/12/22 11:01

Matrix: Solid

Date Received: 01/12/22 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16823	01/14/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 00:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	16978	01/17/22 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16964	01/17/22 19:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16762	01/13/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		1			16935	01/18/22 11:36	CH	XEN MID

Client Sample ID: C-331 0-4.1

Lab Sample ID: 890-1826-4

Date Collected: 01/12/22 12:38

Matrix: Solid

Date Received: 01/12/22 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16869	01/17/22 07:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/17/22 14:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:46	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Client Sample ID: C-331 0-4.1

Lab Sample ID: 890-1826-4

Date Collected: 01/12/22 12:38

Matrix: Solid

Date Received: 01/12/22 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16899	01/14/22 15:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16951	01/16/22 20:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16762	01/13/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		1			16935	01/18/22 11:44	CH	XEN MID

Client Sample ID: C-301 4.1

Lab Sample ID: 890-1826-5

Date Collected: 01/12/22 13:08

Matrix: Solid

Date Received: 01/12/22 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16869	01/17/22 07:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/17/22 15:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16858	01/14/22 11:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16812	01/15/22 03:06	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16762	01/13/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		1			16935	01/18/22 11:51	CH	XEN MID

Client Sample ID: C-956 2'

Lab Sample ID: 890-1826-6

Date Collected: 01/12/22 13:46

Matrix: Solid

Date Received: 01/12/22 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	16869	01/17/22 07:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/17/22 15:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16858	01/14/22 11:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16812	01/15/22 03:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16762	01/13/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		1			16935	01/18/22 11:59	CH	XEN MID

Client Sample ID: C-978 2'

Lab Sample ID: 890-1826-7

Date Collected: 01/12/22 13:52

Matrix: Solid

Date Received: 01/12/22 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	16869	01/17/22 07:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/17/22 16:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17056	01/17/22 14:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17055	01/17/22 14:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16858	01/14/22 11:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16812	01/15/22 03:48	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Client Sample ID: C-978 2'
Date Collected: 01/12/22 13:52
Date Received: 01/12/22 15:39

Lab Sample ID: 890-1826-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	16762	01/13/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		1			16935	01/18/22 12:07	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1826-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1826-1	C-1275 0-1.5	Solid	01/12/22 09:14	01/12/22 15:39	0 - 4.1
890-1826-2	C-1275-2 0-4.1	Solid	01/12/22 09:30	01/12/22 15:39	0 - 4.1
890-1826-3	C-326 0-4.1	Solid	01/12/22 11:01	01/12/22 15:39	0 - 4.1
890-1826-4	C-331 0-4.1	Solid	01/12/22 12:38	01/12/22 15:39	0 - 4.1
890-1826-5	C-301 4.1	Solid	01/12/22 13:08	01/12/22 15:39	4.1
890-1826-6	C-956 2'	Solid	01/12/22 13:46	01/12/22 15:39	3
890-1826-7	C-978 2'	Solid	01/12/22 13:52	01/12/22 15:39	2

CHAIN-OF-CUSTODY

Aarson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 11/12/2022 PAGE L OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: PALMIDE APT

LA PROJECT #: 21-0105-02 COLLECTOR: DSS

Data Reported to:

TRRP report?
☐ Yes ☒ No

S=SOIL W=WATER P=PAINT
A=AIR SL=SLUDGE OT=OTHER

TIME ZONE:
Time zone/State

MST / NM

Field Sample ID

Lab #	Date	Time	Matrix
C-1275	0-1-5	11/12/22	0914
C-1275-2	0-4-1	0930	
C-326	0-4-1	1101	
C-331	0-4-1	1238	
C-301	4-1	1308	
C-956	2-1	1346	
C-978	2-1	1352	

of Containers

HCl	HNO ₃	H ₂ SO ₄ NaOH	ICE	UNPRESERVED
X				

ANALYSES		BTEX-MTBE	TPH 418.1	TPH 1005	TPH 1006	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260	SVOC 8270	8081 PESTICIDES	8082 PCBS	TCLP - METALS (RCRA)	TCLP - PEST	TOTAL METALS (RCRA)	LEAD	RCI	Tox	TDS	pH	% MOISTURE	FLASHPOINT	HEXAVALENT CHROMIUM	PELCHLORATE	ALKALINITY	FIELD NOTES
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

890-1826 Chain of Custody

TOTAL 7

RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature) DATE/TIME

RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature) DATE/TIME

RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature) DATE/TIME

LABORATORY USE ONLY: RECEIVING TEMP. THERM# CUSTODY SEALS - BROKEN INTACT NOT USED CARRIER BILL # HAND DELIVERED

TURN AROUND TIME NORMAL X 1 DAY 2 DAY OTHER

-0.2 TWIM004

LABORATORY USE ONLY: RECEIVING TEMP. THERM# CUSTODY SEALS - BROKEN INTACT NOT USED CARRIER BILL # HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1826-1

SDG Number: 21-0105-02

Login Number: 1826

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1826-1

SDG Number: 21-0105-02

Login Number: 1826

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/14/22 10:54 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1829-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/19/2022 3:42:51 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1829-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Job ID: 890-1829-1

Laboratory: Eurofins Carlsbad**Narrative**

**Job Narrative
890-1829-1****Receipt**

The samples were received on 1/13/2022 3:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.6°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-17066 and analytical batch 880-17092 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-941 3'

Lab Sample ID: 890-1829-1

Date Collected: 01/13/22 09:56

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/17/22 07:15	01/17/22 18:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/17/22 07:15	01/17/22 18:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/17/22 07:15	01/17/22 18:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/17/22 07:15	01/17/22 18:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/17/22 07:15	01/17/22 18:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/17/22 07:15	01/17/22 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/17/22 07:15	01/17/22 18:07	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/17/22 07:15	01/17/22 18:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/19/22 16:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/18/22 15:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		01/17/22 15:57	01/18/22 11:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 11:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	01/17/22 15:57	01/18/22 11:40	1
o-Terphenyl (Surr)	100		70 - 130	01/17/22 15:57	01/18/22 11:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	497		4.95	mg/Kg			01/18/22 00:22	1

Client Sample ID: C-1227 4.1'

Lab Sample ID: 890-1829-2

Date Collected: 01/13/22 10:28

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 18:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 18:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 18:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/17/22 07:15	01/17/22 18:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 18:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/17/22 07:15	01/17/22 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	01/17/22 07:15	01/17/22 18:34	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-1227 4.1'

Lab Sample ID: 890-1829-2

Date Collected: 01/13/22 10:28

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	01/17/22 07:15	01/17/22 18:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/19/22 16:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/18/22 15:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		01/17/22 15:57	01/18/22 12:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/17/22 15:57	01/18/22 12:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/17/22 15:57	01/18/22 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			01/17/22 15:57	01/18/22 12:43	1
o-Terphenyl (Surr)	88		70 - 130			01/17/22 15:57	01/18/22 12:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		5.00	mg/Kg			01/18/22 00:31	1

Client Sample ID: C-926 3'

Lab Sample ID: 890-1829-3

Date Collected: 01/13/22 10:20

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/17/22 16:00	01/17/22 19:02	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/17/22 16:00	01/17/22 19:02	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/17/22 16:00	01/17/22 19:02	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/17/22 16:00	01/17/22 19:02	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/17/22 16:00	01/17/22 19:02	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/17/22 16:00	01/17/22 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	01/17/22 16:00	01/17/22 19:02	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/17/22 16:00	01/17/22 19:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/19/22 16:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/18/22 15:20	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-926 3'

Lab Sample ID: 890-1829-3

Date Collected: 01/13/22 10:20

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		01/17/22 15:57	01/18/22 13:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 13:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 13:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			01/17/22 15:57	01/18/22 13:04	1
o-Terphenyl (Surr)	91		70 - 130			01/17/22 15:57	01/18/22 13:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	519		4.97	mg/Kg			01/18/22 00:39	1

Client Sample ID: C-932 3'

Lab Sample ID: 890-1829-4

Date Collected: 01/13/22 10:22

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/17/22 16:00	01/17/22 19:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/17/22 16:00	01/17/22 19:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/17/22 16:00	01/17/22 19:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/17/22 16:00	01/17/22 19:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/17/22 16:00	01/17/22 19:30	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/17/22 16:00	01/17/22 19:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			01/17/22 16:00	01/17/22 19:30	1
1,4-Difluorobenzene (Surr)	113		70 - 130			01/17/22 16:00	01/17/22 19:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/19/22 16:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/18/22 15:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		01/17/22 15:57	01/18/22 13:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 13:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 13:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130			01/17/22 15:57	01/18/22 13:25	1
o-Terphenyl (Surr)	83		70 - 130			01/17/22 15:57	01/18/22 13:25	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-932 3'

Lab Sample ID: 890-1829-4

Date Collected: 01/13/22 10:22

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	187		4.95	mg/Kg			01/18/22 00:47	1

Client Sample ID: C-944 4.1'

Lab Sample ID: 890-1829-5

Date Collected: 01/13/22 10:45

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/17/22 16:00	01/17/22 19:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/17/22 16:00	01/17/22 19:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/17/22 16:00	01/17/22 19:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/17/22 16:00	01/17/22 19:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/17/22 16:00	01/17/22 19:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/17/22 16:00	01/17/22 19:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			01/17/22 16:00	01/17/22 19:57	1
1,4-Difluorobenzene (Surr)	104		70 - 130			01/17/22 16:00	01/17/22 19:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/19/22 16:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/18/22 15:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		01/17/22 15:57	01/18/22 13:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/17/22 15:57	01/18/22 13:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/17/22 15:57	01/18/22 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			01/17/22 15:57	01/18/22 13:46	1
o-Terphenyl (Surr)	91		70 - 130			01/17/22 15:57	01/18/22 13:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	995		4.99	mg/Kg			01/18/22 00:56	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-1225 3'

Lab Sample ID: 890-1829-6

Date Collected: 01/13/22 12:27

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/17/22 16:00	01/17/22 20:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/17/22 16:00	01/17/22 20:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/17/22 16:00	01/17/22 20:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/17/22 16:00	01/17/22 20:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/17/22 16:00	01/17/22 20:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/17/22 16:00	01/17/22 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/17/22 16:00	01/17/22 20:25	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/17/22 16:00	01/17/22 20:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/19/22 16:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/18/22 15:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		01/17/22 15:57	01/18/22 14:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/17/22 15:57	01/18/22 14:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/17/22 15:57	01/18/22 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	01/17/22 15:57	01/18/22 14:07	1
o-Terphenyl (Surr)	94		70 - 130	01/17/22 15:57	01/18/22 14:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	462		5.00	mg/Kg			01/18/22 01:04	1

Client Sample ID: C-1228 3'

Lab Sample ID: 890-1829-7

Date Collected: 01/13/22 12:31

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/17/22 16:00	01/17/22 20:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/17/22 16:00	01/17/22 20:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/17/22 16:00	01/17/22 20:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/17/22 16:00	01/17/22 20:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/17/22 16:00	01/17/22 20:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/17/22 16:00	01/17/22 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/17/22 16:00	01/17/22 20:53	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-1228 3'

Lab Sample ID: 890-1829-7

Date Collected: 01/13/22 12:31

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	11	S1-	70 - 130	01/17/22 16:00	01/17/22 20:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg	-		01/19/22 16:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg	-		01/18/22 15:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg	-	01/17/22 15:57	01/18/22 14:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	-	01/17/22 15:57	01/18/22 14:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	-	01/17/22 15:57	01/18/22 14:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			01/17/22 15:57	01/18/22 14:28	1
o-Terphenyl (Surr)	84		70 - 130			01/17/22 15:57	01/18/22 14:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	412		4.98	mg/Kg	-		01/18/22 01:29	1

Client Sample ID: C-1235 3'

Lab Sample ID: 890-1829-8

Date Collected: 01/13/22 13:30

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	-	01/17/22 16:00	01/18/22 07:29	1
Toluene	<0.00200	U	0.00200	mg/Kg	-	01/17/22 16:00	01/18/22 07:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	-	01/17/22 16:00	01/18/22 07:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	-	01/17/22 16:00	01/18/22 07:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg	-	01/17/22 16:00	01/18/22 07:29	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	-	01/17/22 16:00	01/18/22 07:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	01/17/22 16:00	01/18/22 07:29	1
1,4-Difluorobenzene (Surr)	80		70 - 130	01/17/22 16:00	01/18/22 07:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg	-		01/19/22 16:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg	-		01/18/22 15:20	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-1235 3'

Lab Sample ID: 890-1829-8

Date Collected: 01/13/22 13:30

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		01/17/22 15:57	01/18/22 14:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/17/22 15:57	01/18/22 14:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/17/22 15:57	01/18/22 14:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			01/17/22 15:57	01/18/22 14:49	1
o-Terphenyl (Surr)	86		70 - 130			01/17/22 15:57	01/18/22 14:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		4.95	mg/Kg			01/18/22 01:37	1

Client Sample ID: C-1236 3'

Lab Sample ID: 890-1829-9

Date Collected: 01/13/22 13:32

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/17/22 16:00	01/18/22 07:56	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/17/22 16:00	01/18/22 07:56	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/17/22 16:00	01/18/22 07:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/17/22 16:00	01/18/22 07:56	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/17/22 16:00	01/18/22 07:56	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/17/22 16:00	01/18/22 07:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			01/17/22 16:00	01/18/22 07:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130			01/17/22 16:00	01/18/22 07:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/19/22 16:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/18/22 15:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		01/17/22 15:57	01/18/22 15:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/17/22 15:57	01/18/22 15:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/17/22 15:57	01/18/22 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			01/17/22 15:57	01/18/22 15:10	1
o-Terphenyl (Surr)	96		70 - 130			01/17/22 15:57	01/18/22 15:10	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-1236 3'

Lab Sample ID: 890-1829-9

Date Collected: 01/13/22 13:32

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		4.95	mg/Kg			01/18/22 02:03	1

Client Sample ID: C-1224 3'

Lab Sample ID: 890-1829-10

Date Collected: 01/13/22 14:20

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/17/22 16:00	01/18/22 08:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/17/22 16:00	01/18/22 08:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/17/22 16:00	01/18/22 08:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/17/22 16:00	01/18/22 08:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/17/22 16:00	01/18/22 08:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/17/22 16:00	01/18/22 08:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			01/17/22 16:00	01/18/22 08:24	1
1,4-Difluorobenzene (Surr)	103		70 - 130			01/17/22 16:00	01/18/22 08:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/19/22 16:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/18/22 15:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		01/17/22 15:57	01/18/22 15:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 15:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 15:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			01/17/22 15:57	01/18/22 15:31	1
o-Terphenyl (Surr)	96		70 - 130			01/17/22 15:57	01/18/22 15:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	243		5.04	mg/Kg			01/18/22 02:11	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-1229 3'

Lab Sample ID: 890-1829-11

Date Collected: 01/13/22 14:22

Matrix: Solid

Date Received: 01/13/22 15:40

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199	mg/Kg		01/17/22 08:51	01/17/22 22:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/17/22 08:51	01/17/22 22:58	1
Ethylbenzene	<0.00199	U F2 F1	0.00199	mg/Kg		01/17/22 08:51	01/17/22 22:58	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398	mg/Kg		01/17/22 08:51	01/17/22 22:58	1
o-Xylene	<0.00199	U F2 F1	0.00199	mg/Kg		01/17/22 08:51	01/17/22 22:58	1
Xylenes, Total	<0.00398	U F2 F1	0.00398	mg/Kg		01/17/22 08:51	01/17/22 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	01/17/22 08:51	01/17/22 22:58	1
1,4-Difluorobenzene (Surr)	113		70 - 130	01/17/22 08:51	01/17/22 22:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/19/22 16:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/18/22 15:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		01/17/22 15:57	01/18/22 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 16:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	01/17/22 15:57	01/18/22 16:13	1
o-Terphenyl (Surr)	88		70 - 130	01/17/22 15:57	01/18/22 16:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		5.00	mg/Kg			01/18/22 02:20	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1829-1	C-941 3'	103	98
890-1829-1 MS	C-941 3'	93	103
890-1829-1 MSD	C-941 3'	85	108
890-1829-2	C-1227 4.1'	127	91
890-1829-3	C-926 3'	80	93
890-1829-4	C-932 3'	98	113
890-1829-5	C-944 4.1'	97	104
890-1829-6	C-1225 3'	103	105
890-1829-7	C-1228 3'	95	11 S1-
890-1829-8	C-1235 3'	116	80
890-1829-9	C-1236 3'	96	100
890-1829-10	C-1224 3'	98	103
890-1829-11	C-1229 3'	130	113
890-1829-11 MS	C-1229 3'	750 S1+	27 S1-
890-1829-11 MSD	C-1229 3'	168 S1+	94
LCS 880-16869/1-A	Lab Control Sample	86	103
LCS 880-16969/1-A	Lab Control Sample	109	96
LCSD 880-16869/2-A	Lab Control Sample Dup	87	103
LCSD 880-16969/2-A	Lab Control Sample Dup	111	104
MB 880-16867/5-A	Method Blank	121	104
MB 880-16869/5-A	Method Blank	70	92
MB 880-16969/5-A	Method Blank	120	105
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1829-1	C-941 3'	94	100
890-1829-1 MS	C-941 3'	77	73
890-1829-1 MSD	C-941 3'	82	72
890-1829-2	C-1227 4.1'	84	88
890-1829-3	C-926 3'	87	91
890-1829-4	C-932 3'	82	83
890-1829-5	C-944 4.1'	88	91
890-1829-6	C-1225 3'	92	94
890-1829-7	C-1228 3'	86	84
890-1829-8	C-1235 3'	83	86
890-1829-9	C-1236 3'	93	96
890-1829-10	C-1224 3'	93	96
890-1829-11	C-1229 3'	87	88
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-17066/2-A	Lab Control Sample	121	117
LCSD 880-17066/3-A	Lab Control Sample Dup	101	99
MB 880-17066/1-A	Method Blank	81	87
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16867/5-A

Matrix: Solid

Analysis Batch: 16967

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16867

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:30	01/17/22 10:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:30	01/17/22 10:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:30	01/17/22 10:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/17/22 07:30	01/17/22 10:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:30	01/17/22 10:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/17/22 07:30	01/17/22 10:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/17/22 07:30	01/17/22 10:53	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/17/22 07:30	01/17/22 10:53	1

Lab Sample ID: MB 880-16869/5-A

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16869

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 11:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 11:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/17/22 07:15	01/17/22 11:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:15	01/17/22 11:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/17/22 07:15	01/17/22 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	01/17/22 07:15	01/17/22 11:39	1
1,4-Difluorobenzene (Surr)	92		70 - 130	01/17/22 07:15	01/17/22 11:39	1

Lab Sample ID: LCS 880-16869/1-A

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1205		mg/Kg		120	70 - 130
Toluene	0.100	0.1091		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.09424		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-16869/2-A

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16869

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1258		mg/Kg		126	70 - 130	4	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-16869/2-A

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16869

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.1142		mg/Kg		114	70 - 130	5	35
Ethylbenzene	0.100	0.09901		mg/Kg		99	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2072		mg/Kg		104	70 - 130	5	35
o-Xylene	0.100	0.1059		mg/Kg		106	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1829-1 MS

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: C-941 3'

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1829-1 MSD

Matrix: Solid

Analysis Batch: 16968

Client Sample ID: C-941 3'

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-16969/5-A

Matrix: Solid

Analysis Batch: 16967

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16969

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/17/22 08:51	01/17/22 22:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/17/22 08:51	01/17/22 22:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/17/22 08:51	01/17/22 22:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/17/22 08:51	01/17/22 22:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/17/22 08:51	01/17/22 22:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/17/22 08:51	01/17/22 22:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	01/17/22 08:51	01/17/22 22:29	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/17/22 08:51	01/17/22 22:29	1

Lab Sample ID: LCS 880-16969/1-A

Matrix: Solid

Analysis Batch: 16967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08505		mg/Kg		85	70 - 130
Toluene	0.100	0.09888		mg/Kg		99	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-16969/1-A

Matrix: Solid

Analysis Batch: 16967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.09639		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1945		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09185		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-16969/2-A

Matrix: Solid

Analysis Batch: 16967

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16969

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08828		mg/Kg		88	70 - 130	4	35
Toluene	0.100	0.09806		mg/Kg		98	70 - 130	1	35
Ethylbenzene	0.100	0.1036		mg/Kg		104	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1962		mg/Kg		98	70 - 130	1	35
o-Xylene	0.100	0.09697		mg/Kg		97	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-1829-11 MS

Matrix: Solid

Analysis Batch: 16967

Client Sample ID: C-1229 3'

Prep Type: Total/NA

Prep Batch: 16969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.0996	0.1386	F1	mg/Kg		139	70 - 130
Toluene	<0.00199	U	0.0996	0.07451		mg/Kg		75	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.0996	0.1329	F1	mg/Kg		133	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.199	0.1695		mg/Kg		85	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0996	0.2294	F1	mg/Kg		230	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	750	S1+	70 - 130
1,4-Difluorobenzene (Surr)	27	S1-	70 - 130

Lab Sample ID: 890-1829-11 MSD

Matrix: Solid

Analysis Batch: 16967

Client Sample ID: C-1229 3'

Prep Type: Total/NA

Prep Batch: 16969

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.0992	0.004455	F2 F1	mg/Kg		4	70 - 130	188	35
Toluene	<0.00199	U	0.0992	0.07334		mg/Kg		74	70 - 130	2	35
Ethylbenzene	<0.00199	U F2 F1	0.0992	0.05943	F2 F1	mg/Kg		60	70 - 130	76	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.06036	F2 F1	mg/Kg		30	70 - 130	95	35
o-Xylene	<0.00199	U F2 F1	0.0992	0.06548	F2 F1	mg/Kg		66	70 - 130	111	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-17066/1-A

Matrix: Solid

Analysis Batch: 17092

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17066

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 10:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 10:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/17/22 15:57	01/18/22 10:37	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane (Surr)	81		70 - 130	01/17/22 15:57	01/18/22 10:37	1
o-Terphenyl (Surr)	87		70 - 130	01/17/22 15:57	01/18/22 10:37	1

Lab Sample ID: LCS 880-17066/2-A

Matrix: Solid

Analysis Batch: 17092

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	911.5		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1194		mg/Kg		119	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	121		70 - 130
o-Terphenyl (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-17066/3-A

Matrix: Solid

Analysis Batch: 17092

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17066

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	709.9	*1	mg/Kg		71	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	1000	1042		mg/Kg		104	70 - 130	14	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	101		70 - 130
o-Terphenyl (Surr)	99		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1829-1 MS

Matrix: Solid

Analysis Batch: 17092

Client Sample ID: C-941 3'

Prep Type: Total/NA

Prep Batch: 17066

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits		
	Result	Qualifier	Added	Result	Qualifier			%Rec			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	999	885.7		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1011		mg/Kg		101	70 - 130		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	77		70 - 130								
o-Terphenyl (Surr)	73		70 - 130								

Lab Sample ID: 890-1829-1 MSD

Matrix: Solid

Analysis Batch: 17092

Client Sample ID: C-941 3'

Prep Type: Total/NA

Prep Batch: 17066

	Sample	Sample	Spike	MSD	MSD			%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	998	907.6		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	999.8		mg/Kg		100	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	82		70 - 130								
o-Terphenyl (Surr)	72		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17050/1-A

Matrix: Solid

Analysis Batch: 17064

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/17/22 22:42	1

Lab Sample ID: LCS 880-17050/2-A

Matrix: Solid

Analysis Batch: 17064

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	252.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-17050/3-A

Matrix: Solid

Analysis Batch: 17064

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	260.8		mg/Kg		104	90 - 110	3	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1829-6 MS

Matrix: Solid

Analysis Batch: 17064

Client Sample ID: C-1225 3'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	462		250	709.8		mg/Kg		99	90 - 110

Lab Sample ID: 890-1829-6 MSD

Matrix: Solid

Analysis Batch: 17064

Client Sample ID: C-1225 3'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	462		250	717.6		mg/Kg		102	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

GC VOA

Prep Batch: 16867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16867/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 16869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1829-1	C-941 3'	Total/NA	Solid	5035	
890-1829-2	C-1227 4.1'	Total/NA	Solid	5035	
890-1829-3	C-926 3'	Total/NA	Solid	5035	
890-1829-4	C-932 3'	Total/NA	Solid	5035	
890-1829-5	C-944 4.1'	Total/NA	Solid	5035	
890-1829-6	C-1225 3'	Total/NA	Solid	5035	
890-1829-7	C-1228 3'	Total/NA	Solid	5035	
890-1829-8	C-1235 3'	Total/NA	Solid	5035	
890-1829-9	C-1236 3'	Total/NA	Solid	5035	
890-1829-10	C-1224 3'	Total/NA	Solid	5035	
MB 880-16869/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16869/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16869/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 16967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1829-11	C-1229 3'	Total/NA	Solid	8021B	16969
MB 880-16867/5-A	Method Blank	Total/NA	Solid	8021B	16867
MB 880-16969/5-A	Method Blank	Total/NA	Solid	8021B	16969
LCS 880-16969/1-A	Lab Control Sample	Total/NA	Solid	8021B	16969
LCSD 880-16969/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16969
890-1829-11 MS	C-1229 3'	Total/NA	Solid	8021B	16969
890-1829-11 MSD	C-1229 3'	Total/NA	Solid	8021B	16969

Analysis Batch: 16968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1829-1	C-941 3'	Total/NA	Solid	8021B	16869
890-1829-2	C-1227 4.1'	Total/NA	Solid	8021B	16869
890-1829-3	C-926 3'	Total/NA	Solid	8021B	16869
890-1829-4	C-932 3'	Total/NA	Solid	8021B	16869
890-1829-5	C-944 4.1'	Total/NA	Solid	8021B	16869
890-1829-6	C-1225 3'	Total/NA	Solid	8021B	16869
890-1829-7	C-1228 3'	Total/NA	Solid	8021B	16869
890-1829-8	C-1235 3'	Total/NA	Solid	8021B	16869
890-1829-9	C-1236 3'	Total/NA	Solid	8021B	16869
890-1829-10	C-1224 3'	Total/NA	Solid	8021B	16869
MB 880-16869/5-A	Method Blank	Total/NA	Solid	8021B	16869
LCS 880-16869/1-A	Lab Control Sample	Total/NA	Solid	8021B	16869
LCSD 880-16869/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16869
890-1829-1 MS	C-941 3'	Total/NA	Solid	8021B	
890-1829-1 MSD	C-941 3'	Total/NA	Solid	8021B	

Prep Batch: 16969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1829-11	C-1229 3'	Total/NA	Solid	5035	
MB 880-16969/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16969/1-A	Lab Control Sample	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 16969 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-16969/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1829-11 MS	C-1229 3'	Total/NA	Solid	5035	
890-1829-11 MSD	C-1229 3'	Total/NA	Solid	5035	

Analysis Batch: 17318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1829-1	C-941 3'	Total/NA	Solid	Total BTEX	
890-1829-2	C-1227 4.1'	Total/NA	Solid	Total BTEX	
890-1829-3	C-926 3'	Total/NA	Solid	Total BTEX	
890-1829-4	C-932 3'	Total/NA	Solid	Total BTEX	
890-1829-5	C-944 4.1'	Total/NA	Solid	Total BTEX	
890-1829-6	C-1225 3'	Total/NA	Solid	Total BTEX	
890-1829-7	C-1228 3'	Total/NA	Solid	Total BTEX	
890-1829-8	C-1235 3'	Total/NA	Solid	Total BTEX	
890-1829-9	C-1236 3'	Total/NA	Solid	Total BTEX	
890-1829-10	C-1224 3'	Total/NA	Solid	Total BTEX	
890-1829-11	C-1229 3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 17066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1829-1	C-941 3'	Total/NA	Solid	8015NM Prep	
890-1829-2	C-1227 4.1'	Total/NA	Solid	8015NM Prep	
890-1829-3	C-926 3'	Total/NA	Solid	8015NM Prep	
890-1829-4	C-932 3'	Total/NA	Solid	8015NM Prep	
890-1829-5	C-944 4.1'	Total/NA	Solid	8015NM Prep	
890-1829-6	C-1225 3'	Total/NA	Solid	8015NM Prep	
890-1829-7	C-1228 3'	Total/NA	Solid	8015NM Prep	
890-1829-8	C-1235 3'	Total/NA	Solid	8015NM Prep	
890-1829-9	C-1236 3'	Total/NA	Solid	8015NM Prep	
890-1829-10	C-1224 3'	Total/NA	Solid	8015NM Prep	
890-1829-11	C-1229 3'	Total/NA	Solid	8015NM Prep	
MB 880-17066/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17066/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17066/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1829-1 MS	C-941 3'	Total/NA	Solid	8015NM Prep	
890-1829-1 MSD	C-941 3'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1829-1	C-941 3'	Total/NA	Solid	8015B NM	17066
890-1829-2	C-1227 4.1'	Total/NA	Solid	8015B NM	17066
890-1829-3	C-926 3'	Total/NA	Solid	8015B NM	17066
890-1829-4	C-932 3'	Total/NA	Solid	8015B NM	17066
890-1829-5	C-944 4.1'	Total/NA	Solid	8015B NM	17066
890-1829-6	C-1225 3'	Total/NA	Solid	8015B NM	17066
890-1829-7	C-1228 3'	Total/NA	Solid	8015B NM	17066
890-1829-8	C-1235 3'	Total/NA	Solid	8015B NM	17066
890-1829-9	C-1236 3'	Total/NA	Solid	8015B NM	17066
890-1829-10	C-1224 3'	Total/NA	Solid	8015B NM	17066

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 17092 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1829-11	C-1229 3'	Total/NA	Solid	8015B NM	17066
MB 880-17066/1-A	Method Blank	Total/NA	Solid	8015B NM	17066
LCS 880-17066/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17066
LCSD 880-17066/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17066
890-1829-1 MS	C-941 3'	Total/NA	Solid	8015B NM	17066
890-1829-1 MSD	C-941 3'	Total/NA	Solid	8015B NM	17066

Analysis Batch: 17188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1829-1	C-941 3'	Total/NA	Solid	8015 NM	
890-1829-2	C-1227 4.1'	Total/NA	Solid	8015 NM	
890-1829-3	C-926 3'	Total/NA	Solid	8015 NM	
890-1829-4	C-932 3'	Total/NA	Solid	8015 NM	
890-1829-5	C-944 4.1'	Total/NA	Solid	8015 NM	
890-1829-6	C-1225 3'	Total/NA	Solid	8015 NM	
890-1829-7	C-1228 3'	Total/NA	Solid	8015 NM	
890-1829-8	C-1235 3'	Total/NA	Solid	8015 NM	
890-1829-9	C-1236 3'	Total/NA	Solid	8015 NM	
890-1829-10	C-1224 3'	Total/NA	Solid	8015 NM	
890-1829-11	C-1229 3'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 17050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1829-1	C-941 3'	Soluble	Solid	DI Leach	
890-1829-2	C-1227 4.1'	Soluble	Solid	DI Leach	
890-1829-3	C-926 3'	Soluble	Solid	DI Leach	
890-1829-4	C-932 3'	Soluble	Solid	DI Leach	
890-1829-5	C-944 4.1'	Soluble	Solid	DI Leach	
890-1829-6	C-1225 3'	Soluble	Solid	DI Leach	
890-1829-7	C-1228 3'	Soluble	Solid	DI Leach	
890-1829-8	C-1235 3'	Soluble	Solid	DI Leach	
890-1829-9	C-1236 3'	Soluble	Solid	DI Leach	
890-1829-10	C-1224 3'	Soluble	Solid	DI Leach	
890-1829-11	C-1229 3'	Soluble	Solid	DI Leach	
MB 880-17050/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17050/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17050/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1829-6 MS	C-1225 3'	Soluble	Solid	DI Leach	
890-1829-6 MSD	C-1225 3'	Soluble	Solid	DI Leach	

Analysis Batch: 17064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1829-1	C-941 3'	Soluble	Solid	300.0	17050
890-1829-2	C-1227 4.1'	Soluble	Solid	300.0	17050
890-1829-3	C-926 3'	Soluble	Solid	300.0	17050
890-1829-4	C-932 3'	Soluble	Solid	300.0	17050
890-1829-5	C-944 4.1'	Soluble	Solid	300.0	17050
890-1829-6	C-1225 3'	Soluble	Solid	300.0	17050
890-1829-7	C-1228 3'	Soluble	Solid	300.0	17050

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 17064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1829-8	C-1235 3'	Soluble	Solid	300.0	17050
890-1829-9	C-1236 3'	Soluble	Solid	300.0	17050
890-1829-10	C-1224 3'	Soluble	Solid	300.0	17050
890-1829-11	C-1229 3'	Soluble	Solid	300.0	17050
MB 880-17050/1-A	Method Blank	Soluble	Solid	300.0	17050
LCS 880-17050/2-A	Lab Control Sample	Soluble	Solid	300.0	17050
LCSD 880-17050/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17050
890-1829-6 MS	C-1225 3'	Soluble	Solid	300.0	17050
890-1829-6 MSD	C-1225 3'	Soluble	Solid	300.0	17050

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-941 3'

Lab Sample ID: 890-1829-1

Date Collected: 01/13/22 09:56

Matrix: Solid

Date Received: 01/13/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16869	01/17/22 07:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/17/22 18:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17318	01/19/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17188	01/18/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17066	01/17/22 15:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17092	01/18/22 11:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17050	01/17/22 13:49	SC	XEN MID
Soluble	Analysis	300.0		1			17064	01/18/22 00:22	CH	XEN MID

Client Sample ID: C-1227 4.1'

Lab Sample ID: 890-1829-2

Date Collected: 01/13/22 10:28

Matrix: Solid

Date Received: 01/13/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	16869	01/17/22 07:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/17/22 18:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17318	01/19/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17188	01/18/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17066	01/17/22 15:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17092	01/18/22 12:43	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17050	01/17/22 13:49	SC	XEN MID
Soluble	Analysis	300.0		1			17064	01/18/22 00:31	CH	XEN MID

Client Sample ID: C-926 3'

Lab Sample ID: 890-1829-3

Date Collected: 01/13/22 10:20

Matrix: Solid

Date Received: 01/13/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16869	01/17/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/17/22 19:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17318	01/19/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17188	01/18/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17066	01/17/22 15:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17092	01/18/22 13:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17050	01/17/22 13:49	SC	XEN MID
Soluble	Analysis	300.0		1			17064	01/18/22 00:39	CH	XEN MID

Client Sample ID: C-932 3'

Lab Sample ID: 890-1829-4

Date Collected: 01/13/22 10:22

Matrix: Solid

Date Received: 01/13/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16869	01/17/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/17/22 19:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17318	01/19/22 16:32	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-932 3'

Lab Sample ID: 890-1829-4

Date Collected: 01/13/22 10:22

Matrix: Solid

Date Received: 01/13/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17188	01/18/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17066	01/17/22 15:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17092	01/18/22 13:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17050	01/17/22 13:49	SC	XEN MID
Soluble	Analysis	300.0		1			17064	01/18/22 00:47	CH	XEN MID

Client Sample ID: C-944 4.1'

Lab Sample ID: 890-1829-5

Date Collected: 01/13/22 10:45

Matrix: Solid

Date Received: 01/13/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16869	01/17/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/17/22 19:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17318	01/19/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17188	01/18/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17066	01/17/22 15:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17092	01/18/22 13:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17050	01/17/22 13:49	SC	XEN MID
Soluble	Analysis	300.0		1			17064	01/18/22 00:56	CH	XEN MID

Client Sample ID: C-1225 3'

Lab Sample ID: 890-1829-6

Date Collected: 01/13/22 12:27

Matrix: Solid

Date Received: 01/13/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16869	01/17/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/17/22 20:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17318	01/19/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17188	01/18/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17066	01/17/22 15:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17092	01/18/22 14:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17050	01/17/22 13:49	SC	XEN MID
Soluble	Analysis	300.0		1			17064	01/18/22 01:04	CH	XEN MID

Client Sample ID: C-1228 3'

Lab Sample ID: 890-1829-7

Date Collected: 01/13/22 12:31

Matrix: Solid

Date Received: 01/13/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16869	01/17/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/17/22 20:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17318	01/19/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17188	01/18/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17066	01/17/22 15:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17092	01/18/22 14:28	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-1228 3'**Lab Sample ID: 890-1829-7****Date Collected: 01/13/22 12:31****Matrix: Solid****Date Received: 01/13/22 15:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	17050	01/17/22 13:49	SC	XEN MID
Soluble	Analysis	300.0		1			17064	01/18/22 01:29	CH	XEN MID

Client Sample ID: C-1235 3'**Lab Sample ID: 890-1829-8****Date Collected: 01/13/22 13:30****Matrix: Solid****Date Received: 01/13/22 15:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	16869	01/17/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/18/22 07:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17318	01/19/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17188	01/18/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17066	01/17/22 15:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17092	01/18/22 14:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17050	01/17/22 13:49	SC	XEN MID
Soluble	Analysis	300.0		1			17064	01/18/22 01:37	CH	XEN MID

Client Sample ID: C-1236 3'**Lab Sample ID: 890-1829-9****Date Collected: 01/13/22 13:32****Matrix: Solid****Date Received: 01/13/22 15:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16869	01/17/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/18/22 07:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17318	01/19/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17188	01/18/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17066	01/17/22 15:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17092	01/18/22 15:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17050	01/17/22 13:49	SC	XEN MID
Soluble	Analysis	300.0		1			17064	01/18/22 02:03	CH	XEN MID

Client Sample ID: C-1224 3'**Lab Sample ID: 890-1829-10****Date Collected: 01/13/22 14:20****Matrix: Solid****Date Received: 01/13/22 15:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	16869	01/17/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16968	01/18/22 08:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17318	01/19/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17188	01/18/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17066	01/17/22 15:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17092	01/18/22 15:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	17050	01/17/22 13:49	SC	XEN MID
Soluble	Analysis	300.0		1			17064	01/18/22 02:11	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Client Sample ID: C-1229 3'
Date Collected: 01/13/22 14:22
Date Received: 01/13/22 15:40

Lab Sample ID: 890-1829-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	16969	01/17/22 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16967	01/17/22 22:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17318	01/19/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17188	01/18/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17066	01/17/22 15:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17092	01/18/22 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17050	01/17/22 13:49	SC	XEN MID
Soluble	Analysis	300.0		1			17064	01/18/22 02:20	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1829-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1829-1	C-941 3'	Solid	01/13/22 09:56	01/13/22 15:40	3
890-1829-2	C-1227 4.1'	Solid	01/13/22 10:28	01/13/22 15:40	4.1
890-1829-3	C-926 3'	Solid	01/13/22 10:20	01/13/22 15:40	3
890-1829-4	C-932 3'	Solid	01/13/22 10:22	01/13/22 15:40	3
890-1829-5	C-944 4.1'	Solid	01/13/22 10:45	01/13/22 15:40	4.1
890-1829-6	C-1225 3'	Solid	01/13/22 12:27	01/13/22 15:40	3
890-1829-7	C-1228 3'	Solid	01/13/22 12:31	01/13/22 15:40	3
890-1829-8	C-1235 3'	Solid	01/13/22 13:30	01/13/22 15:40	3
890-1829-9	C-1236 3'	Solid	01/13/22 13:32	01/13/22 15:40	3
890-1829-10	C-1224 3'	Solid	01/13/22 14:20	01/13/22 15:40	3
890-1829-11	C-1229 3'	Solid	01/13/22 14:22	01/13/22 15:40	3

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Arson & Associates, Inc.
Environmental Consultants

507 N. Mainfield, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 11/13/2022 PAGE 1 OF 1
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmer 45T
LAI PROJECT #: 21-0105-02 COLLECTOR: DSG

No. 2253
CHAIN-OF-CUSTODY

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES															FIELD NOTES				
						HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☐ MTBE ☐	TPH 418 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	8081 PESTICIDES ☐ PAH 8270 ☐ HOLDPAH ☐	8082 PESTICIDES ☐ 6:151 HERBICIDES ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ DW 2008 ☐	LEAD - TOTAL ☐ FLASHPOINT ☐	RCT ☐ TOX ☐ TSS ☐ % MOISTURE ☐		PH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
C-941 3'		11/13/22	0956	S	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C-1227 4.1'		11/13/22	1028	S	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C-928 3'		11/13/22	1020	S	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C-932 3'		11/13/22	1022	S	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C-944 4.1'		11/13/22	1045	S	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C-1225 3'		11/13/22	1222	S	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C-1224 3'		11/13/22	1231	S	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C-1235 3'		11/13/22	1330	S	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C-1236 3'		11/13/22	1332	S	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C-1224 3'		11/13/22	1420	S	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C-1229 3'		11/13/22	1422	S	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
TOTAL	11																												

890-1829 Chain of Custody



RECEIVED BY (Signature) [Signature] DATE/TIME 11/13/22 13:00 5410
 RELINQUISHED BY (Signature) [Signature] DATE/TIME _____
 RELINQUISHED BY (Signature) _____ DATE/TIME _____
 LABORATORY X envo RECEIVED BY (Signature) _____
 TURN AROUND TIME NORMAL X 1 DAY X 2 DAY X OTHER X
 LABORATORY USE ONLY: RECEIVING TEMP 18.6 THERM# 1009
 CUSTODY SEALS X BROKEN X INTACT X NOT USED
 CARRIER BILL # CPD-Coding In Process
 HAND DELIVERED X

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1829-1

SDG Number: 21-0105-02

Login Number: 1829

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1829-1

SDG Number: 21-0105-02

Login Number: 1829

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/17/22 09:43 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1846-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in cursive script that reads "Holly Taylor".

Authorized for release by:
1/25/2022 10:57:42 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1846-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Job ID: 890-1846-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-1846-1****Receipt**

The samples were received on 1/18/2022 3:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17293 and analytical batch 880-17526 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-1209 3.5' (890-1846-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-1230 4.1' (890-1846-2), (MB 880-17372/1-A), (890-1846-A-1-K MS) and (890-1846-A-1-L MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Client Sample ID: C-1223 3'

Lab Sample ID: 890-1846-1

Date Collected: 01/17/22 12:30

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 3'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 12:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 12:15	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		01/24/22 07:30	01/24/22 12:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/24/22 07:30	01/24/22 12:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 12:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/24/22 07:30	01/24/22 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	01/24/22 07:30	01/24/22 12:15	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/24/22 07:30	01/24/22 12:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/22 17:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/20/22 20:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/20/22 20:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/20/22 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130	01/20/22 14:30	01/20/22 20:44	1
o-Terphenyl (Surr)	72		70 - 130	01/20/22 14:30	01/20/22 20:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	303		4.99	mg/Kg			01/22/22 20:12	1

Client Sample ID: C-1230 4.1'

Lab Sample ID: 890-1846-2

Date Collected: 01/17/22 12:50

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 12:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 12:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 12:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/24/22 07:30	01/24/22 12:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 12:43	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/24/22 07:30	01/24/22 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	01/24/22 07:30	01/24/22 12:43	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Client Sample ID: C-1230 4.1'

Lab Sample ID: 890-1846-2

Date Collected: 01/17/22 12:50

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	01/24/22 07:30	01/24/22 12:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/24/22 17:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/20/22 21:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/20/22 21:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/20/22 21:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	68	S1-	70 - 130			01/20/22 14:30	01/20/22 21:45	1
o-Terphenyl (Surr)	67	S1-	70 - 130			01/20/22 14:30	01/20/22 21:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		4.98	mg/Kg			01/22/22 20:24	1

Client Sample ID: C-1233 4.1'

Lab Sample ID: 890-1846-3

Date Collected: 01/17/22 12:58

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/24/22 07:30	01/24/22 13:11	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/24/22 07:30	01/24/22 13:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/24/22 07:30	01/24/22 13:11	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/24/22 07:30	01/24/22 13:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/24/22 07:30	01/24/22 13:11	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/24/22 07:30	01/24/22 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	01/24/22 07:30	01/24/22 13:11	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/24/22 07:30	01/24/22 13:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/24/22 17:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Client Sample ID: C-1233 4.1'

Lab Sample ID: 890-1846-3

Date Collected: 01/17/22 12:58

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 4.1'

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 22:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 22:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 22:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			01/20/22 14:30	01/20/22 22:05	1
o-Terphenyl (Surr)	78		70 - 130			01/20/22 14:30	01/20/22 22:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	709		4.95	mg/Kg			01/22/22 20:35	1

Client Sample ID: C-1231 4.1'

Lab Sample ID: 890-1846-4

Date Collected: 01/17/22 13:58

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 13:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 13:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 13:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/24/22 07:30	01/24/22 13:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 13:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/24/22 07:30	01/24/22 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			01/24/22 07:30	01/24/22 13:39	1
1,4-Difluorobenzene (Surr)	103		70 - 130			01/24/22 07:30	01/24/22 13:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/22 17:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/20/22 22:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/20/22 22:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/20/22 22:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			01/20/22 14:30	01/20/22 22:25	1
o-Terphenyl (Surr)	77		70 - 130			01/20/22 14:30	01/20/22 22:25	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Client Sample ID: C-1231 4.1'

Lab Sample ID: 890-1846-4

Date Collected: 01/17/22 13:58

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 4.1'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	314		4.97	mg/Kg			01/22/22 20:47	1

Client Sample ID: C-1232 4.1'

Lab Sample ID: 890-1846-5

Date Collected: 01/17/22 14:22

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 4.1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 14:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 14:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 14:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/24/22 07:30	01/24/22 14:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 14:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/24/22 07:30	01/24/22 14:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			01/24/22 07:30	01/24/22 14:08	1
1,4-Difluorobenzene (Surr)	102		70 - 130			01/24/22 07:30	01/24/22 14:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/24/22 17:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 22:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 22:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 22:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			01/20/22 14:30	01/20/22 22:46	1
o-Terphenyl (Surr)	77		70 - 130			01/20/22 14:30	01/20/22 22:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	698		5.00	mg/Kg			01/22/22 21:23	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Client Sample ID: C-1208 2.5'

Lab Sample ID: 890-1846-6

Date Collected: 01/18/22 09:30

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 14:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 14:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 14:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/24/22 07:30	01/24/22 14:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 14:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/24/22 07:30	01/24/22 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	01/24/22 07:30	01/24/22 14:36	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/24/22 07:30	01/24/22 14:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/24/22 17:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 23:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 23:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130	01/20/22 14:30	01/20/22 23:06	1
o-Terphenyl (Surr)	77		70 - 130	01/20/22 14:30	01/20/22 23:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	345		4.99	mg/Kg			01/22/22 21:35	1

Client Sample ID: C-1209 3.5'

Lab Sample ID: 890-1846-7

Date Collected: 01/18/22 10:11

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 3.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 15:04	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 15:04	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 15:04	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/24/22 07:30	01/24/22 15:04	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 15:04	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/24/22 07:30	01/24/22 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	188	S1+	70 - 130	01/24/22 07:30	01/24/22 15:04	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Client Sample ID: C-1209 3.5'

Lab Sample ID: 890-1846-7

Date Collected: 01/18/22 10:11

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 3.5'

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	80		70 - 130	01/24/22 07:30	01/24/22 15:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/24/22 17:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 23:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 23:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 23:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130			01/20/22 14:30	01/20/22 23:26	1
o-Terphenyl (Surr)	75		70 - 130			01/20/22 14:30	01/20/22 23:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	312		4.98	mg/Kg			01/22/22 22:10	1

Client Sample ID: C-1210 3.5'

Lab Sample ID: 890-1846-8

Date Collected: 01/18/22 10:15

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 3.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 15:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 15:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 15:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/24/22 07:30	01/24/22 15:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 15:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/24/22 07:30	01/24/22 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/24/22 07:30	01/24/22 15:32	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/24/22 07:30	01/24/22 15:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/22 17:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:33	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Client Sample ID: C-1210 3.5'

Lab Sample ID: 890-1846-8

Date Collected: 01/18/22 10:15

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 3.5'

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/20/22 23:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/20/22 23:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/20/22 23:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			01/20/22 14:30	01/20/22 23:47	1
o-Terphenyl (Surr)	85		70 - 130			01/20/22 14:30	01/20/22 23:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	325		5.00	mg/Kg			01/22/22 22:22	1

Client Sample ID: C-1212 2.5'

Lab Sample ID: 890-1846-9

Date Collected: 01/18/22 10:38

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 16:00	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 16:00	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 16:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/24/22 07:30	01/24/22 16:00	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 16:00	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/24/22 07:30	01/24/22 16:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			01/24/22 07:30	01/24/22 16:00	1
1,4-Difluorobenzene (Surr)	104		70 - 130			01/24/22 07:30	01/24/22 16:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			01/24/22 17:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/21/22 00:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/21/22 00:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/21/22 00:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			01/20/22 14:30	01/21/22 00:06	1
o-Terphenyl (Surr)	83		70 - 130			01/20/22 14:30	01/21/22 00:06	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Client Sample ID: C-1212 2.5'

Lab Sample ID: 890-1846-9

Date Collected: 01/18/22 10:38

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 2.5'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	779		5.01	mg/Kg			01/22/22 22:34	1

Client Sample ID: C-1198 2.5'

Lab Sample ID: 890-1846-10

Date Collected: 01/18/22 10:58

Matrix: Solid

Date Received: 01/18/22 15:27

Sample Depth: 2.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 16:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 16:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 16:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/24/22 07:30	01/24/22 16:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 16:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/24/22 07:30	01/24/22 16:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			01/24/22 07:30	01/24/22 16:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130			01/24/22 07:30	01/24/22 16:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/22 17:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/21/22 00:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/21/22 00:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/20/22 14:30	01/21/22 00:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			01/20/22 14:30	01/21/22 00:26	1
o-Terphenyl (Surr)	86		70 - 130			01/20/22 14:30	01/21/22 00:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		4.95	mg/Kg			01/22/22 22:46	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1846-1	C-1223 3'	112	91
890-1846-1 MS	C-1223 3'	113	109
890-1846-1 MSD	C-1223 3'	103	113
890-1846-2	C-1230 4.1'	106	98
890-1846-3	C-1233 4.1'	120	103
890-1846-4	C-1231 4.1'	117	103
890-1846-5	C-1232 4.1'	118	102
890-1846-6	C-1208 2.5'	119	104
890-1846-7	C-1209 3.5'	188 S1+	80
890-1846-8	C-1210 3.5'	118	104
890-1846-9	C-1212 2.5'	117	104
890-1846-10	C-1198 2.5'	112	101
LCS 880-17293/1-A	Lab Control Sample	100	107
LCSD 880-17293/2-A	Lab Control Sample Dup	101	108
MB 880-17293/5-A	Method Blank	71	93
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1846-1	C-1223 3'	73	72
890-1846-1 MS	C-1223 3'	72	64 S1-
890-1846-1 MSD	C-1223 3'	72	63 S1-
890-1846-2	C-1230 4.1'	68 S1-	67 S1-
890-1846-3	C-1233 4.1'	78	78
890-1846-4	C-1231 4.1'	75	77
890-1846-5	C-1232 4.1'	76	77
890-1846-6	C-1208 2.5'	75	77
890-1846-7	C-1209 3.5'	74	75
890-1846-8	C-1210 3.5'	83	85
890-1846-9	C-1212 2.5'	76	83
890-1846-10	C-1198 2.5'	79	86
LCS 880-17372/2-A	Lab Control Sample	95	90
LCSD 880-17372/3-A	Lab Control Sample Dup	99	95
MB 880-17372/1-A	Method Blank	69 S1-	71
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17293/5-A

Matrix: Solid

Analysis Batch: 17526

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17293

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 11:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/24/22 07:30	01/24/22 11:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/24/22 07:30	01/24/22 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	01/24/22 07:30	01/24/22 11:47	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/24/22 07:30	01/24/22 11:47	1

Lab Sample ID: LCS 880-17293/1-A

Matrix: Solid

Analysis Batch: 17526

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1132		mg/Kg		113	70 - 130
Toluene	0.100	0.09368		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09517		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2093		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1101		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-17293/2-A

Matrix: Solid

Analysis Batch: 17526

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17293

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1116		mg/Kg		112	70 - 130	1	35
Toluene	0.100	0.09396		mg/Kg		94	70 - 130	0	35
Ethylbenzene	0.100	0.09423		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2076		mg/Kg		104	70 - 130	1	35
o-Xylene	0.100	0.1087		mg/Kg		109	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-1846-1 MS

Matrix: Solid

Analysis Batch: 17526

Client Sample ID: C-1223 3'

Prep Type: Total/NA

Prep Batch: 17293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0990	0.1003		mg/Kg		101	70 - 130
Toluene	<0.00199	U	0.0990	0.08198		mg/Kg		83	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1846-1 MS

Matrix: Solid

Analysis Batch: 17526

Client Sample ID: C-1223 3'

Prep Type: Total/NA

Prep Batch: 17293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F1	0.0990	0.07388		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1599		mg/Kg		81	70 - 130
o-Xylene	<0.00199	U	0.0990	0.08914		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-1846-1 MSD

Matrix: Solid

Analysis Batch: 17526

Client Sample ID: C-1223 3'

Prep Type: Total/NA

Prep Batch: 17293

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0998	0.09038		mg/Kg		91	70 - 130	10	35
Toluene	<0.00199	U	0.0998	0.07049		mg/Kg		71	70 - 130	15	35
Ethylbenzene	<0.00199	U F1	0.0998	0.06561	F1	mg/Kg		66	70 - 130	12	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1433		mg/Kg		72	70 - 130	11	35
o-Xylene	<0.00199	U	0.0998	0.07637		mg/Kg		77	70 - 130	15	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-17372/1-A

Matrix: Solid

Analysis Batch: 17328

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17372

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 19:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 14:30	01/20/22 19:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130	01/20/22 14:30	01/20/22 19:43	1
o-Terphenyl (Surr)	71		70 - 130	01/20/22 14:30	01/20/22 19:43	1

Lab Sample ID: LCS 880-17372/2-A

Matrix: Solid

Analysis Batch: 17328

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1099		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	961.8		mg/Kg		96	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-17372/2-A
Matrix: Solid
Analysis Batch: 17328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17372

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-17372/3-A
Matrix: Solid
Analysis Batch: 17328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17372

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1076		mg/Kg		108	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	920.0		mg/Kg		92	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	95		70 - 130

Lab Sample ID: 890-1846-1 MS
Matrix: Solid
Analysis Batch: 17328

Client Sample ID: C-1223 3'
Prep Type: Total/NA
Prep Batch: 17372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1122		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1008		mg/Kg		99	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	72		70 - 130
o-Terphenyl (Surr)	64	S1-	70 - 130

Lab Sample ID: 890-1846-1 MSD
Matrix: Solid
Analysis Batch: 17328

Client Sample ID: C-1223 3'
Prep Type: Total/NA
Prep Batch: 17372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1133		mg/Kg		114	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1007		mg/Kg		99	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	72		70 - 130
o-Terphenyl (Surr)	63	S1-	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17338/1-A

Matrix: Solid

Analysis Batch: 17519

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/22/22 17:26	1

Lab Sample ID: LCS 880-17338/2-A

Matrix: Solid

Analysis Batch: 17519

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	253.1		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-17338/3-A

Matrix: Solid

Analysis Batch: 17519

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	268.1		mg/Kg		107	90 - 110	6	20

Lab Sample ID: 890-1846-4 MS

Matrix: Solid

Analysis Batch: 17519

Client Sample ID: C-1231 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	314		249	560.8		mg/Kg		99	90 - 110

Lab Sample ID: 890-1846-4 MSD

Matrix: Solid

Analysis Batch: 17519

Client Sample ID: C-1231 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	314		249	582.6		mg/Kg		108	90 - 110	4	20

Eurofins Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

GC VOA

Prep Batch: 17293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1846-1	C-1223 3'	Total/NA	Solid	5035	
890-1846-2	C-1230 4.1'	Total/NA	Solid	5035	
890-1846-3	C-1233 4.1'	Total/NA	Solid	5035	
890-1846-4	C-1231 4.1'	Total/NA	Solid	5035	
890-1846-5	C-1232 4.1'	Total/NA	Solid	5035	
890-1846-6	C-1208 2.5'	Total/NA	Solid	5035	
890-1846-7	C-1209 3.5'	Total/NA	Solid	5035	
890-1846-8	C-1210 3.5'	Total/NA	Solid	5035	
890-1846-9	C-1212 2.5'	Total/NA	Solid	5035	
890-1846-10	C-1198 2.5'	Total/NA	Solid	5035	
MB 880-17293/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17293/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17293/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1846-1 MS	C-1223 3'	Total/NA	Solid	5035	
890-1846-1 MSD	C-1223 3'	Total/NA	Solid	5035	

Analysis Batch: 17526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1846-1	C-1223 3'	Total/NA	Solid	8021B	17293
890-1846-2	C-1230 4.1'	Total/NA	Solid	8021B	17293
890-1846-3	C-1233 4.1'	Total/NA	Solid	8021B	17293
890-1846-4	C-1231 4.1'	Total/NA	Solid	8021B	17293
890-1846-5	C-1232 4.1'	Total/NA	Solid	8021B	17293
890-1846-6	C-1208 2.5'	Total/NA	Solid	8021B	17293
890-1846-7	C-1209 3.5'	Total/NA	Solid	8021B	17293
890-1846-8	C-1210 3.5'	Total/NA	Solid	8021B	17293
890-1846-9	C-1212 2.5'	Total/NA	Solid	8021B	17293
890-1846-10	C-1198 2.5'	Total/NA	Solid	8021B	17293
MB 880-17293/5-A	Method Blank	Total/NA	Solid	8021B	17293
LCS 880-17293/1-A	Lab Control Sample	Total/NA	Solid	8021B	17293
LCSD 880-17293/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17293
890-1846-1 MS	C-1223 3'	Total/NA	Solid	8021B	17293
890-1846-1 MSD	C-1223 3'	Total/NA	Solid	8021B	17293

Analysis Batch: 17647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1846-1	C-1223 3'	Total/NA	Solid	Total BTEX	
890-1846-2	C-1230 4.1'	Total/NA	Solid	Total BTEX	
890-1846-3	C-1233 4.1'	Total/NA	Solid	Total BTEX	
890-1846-4	C-1231 4.1'	Total/NA	Solid	Total BTEX	
890-1846-5	C-1232 4.1'	Total/NA	Solid	Total BTEX	
890-1846-6	C-1208 2.5'	Total/NA	Solid	Total BTEX	
890-1846-7	C-1209 3.5'	Total/NA	Solid	Total BTEX	
890-1846-8	C-1210 3.5'	Total/NA	Solid	Total BTEX	
890-1846-9	C-1212 2.5'	Total/NA	Solid	Total BTEX	
890-1846-10	C-1198 2.5'	Total/NA	Solid	Total BTEX	

Eurofins Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 17328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1846-1	C-1223 3'	Total/NA	Solid	8015B NM	17372
890-1846-2	C-1230 4.1'	Total/NA	Solid	8015B NM	17372
890-1846-3	C-1233 4.1'	Total/NA	Solid	8015B NM	17372
890-1846-4	C-1231 4.1'	Total/NA	Solid	8015B NM	17372
890-1846-5	C-1232 4.1'	Total/NA	Solid	8015B NM	17372
890-1846-6	C-1208 2.5'	Total/NA	Solid	8015B NM	17372
890-1846-7	C-1209 3.5'	Total/NA	Solid	8015B NM	17372
890-1846-8	C-1210 3.5'	Total/NA	Solid	8015B NM	17372
890-1846-9	C-1212 2.5'	Total/NA	Solid	8015B NM	17372
890-1846-10	C-1198 2.5'	Total/NA	Solid	8015B NM	17372
MB 880-17372/1-A	Method Blank	Total/NA	Solid	8015B NM	17372
LCS 880-17372/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17372
LCSD 880-17372/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17372
890-1846-1 MS	C-1223 3'	Total/NA	Solid	8015B NM	17372
890-1846-1 MSD	C-1223 3'	Total/NA	Solid	8015B NM	17372

Prep Batch: 17372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1846-1	C-1223 3'	Total/NA	Solid	8015NM Prep	
890-1846-2	C-1230 4.1'	Total/NA	Solid	8015NM Prep	
890-1846-3	C-1233 4.1'	Total/NA	Solid	8015NM Prep	
890-1846-4	C-1231 4.1'	Total/NA	Solid	8015NM Prep	
890-1846-5	C-1232 4.1'	Total/NA	Solid	8015NM Prep	
890-1846-6	C-1208 2.5'	Total/NA	Solid	8015NM Prep	
890-1846-7	C-1209 3.5'	Total/NA	Solid	8015NM Prep	
890-1846-8	C-1210 3.5'	Total/NA	Solid	8015NM Prep	
890-1846-9	C-1212 2.5'	Total/NA	Solid	8015NM Prep	
890-1846-10	C-1198 2.5'	Total/NA	Solid	8015NM Prep	
MB 880-17372/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17372/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17372/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1846-1 MS	C-1223 3'	Total/NA	Solid	8015NM Prep	
890-1846-1 MSD	C-1223 3'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1846-1	C-1223 3'	Total/NA	Solid	8015 NM	
890-1846-2	C-1230 4.1'	Total/NA	Solid	8015 NM	
890-1846-3	C-1233 4.1'	Total/NA	Solid	8015 NM	
890-1846-4	C-1231 4.1'	Total/NA	Solid	8015 NM	
890-1846-5	C-1232 4.1'	Total/NA	Solid	8015 NM	
890-1846-6	C-1208 2.5'	Total/NA	Solid	8015 NM	
890-1846-7	C-1209 3.5'	Total/NA	Solid	8015 NM	
890-1846-8	C-1210 3.5'	Total/NA	Solid	8015 NM	
890-1846-9	C-1212 2.5'	Total/NA	Solid	8015 NM	
890-1846-10	C-1198 2.5'	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 17338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1846-1	C-1223 3'	Soluble	Solid	DI Leach	
890-1846-2	C-1230 4.1'	Soluble	Solid	DI Leach	
890-1846-3	C-1233 4.1'	Soluble	Solid	DI Leach	
890-1846-4	C-1231 4.1'	Soluble	Solid	DI Leach	
890-1846-5	C-1232 4.1'	Soluble	Solid	DI Leach	
890-1846-6	C-1208 2.5'	Soluble	Solid	DI Leach	
890-1846-7	C-1209 3.5'	Soluble	Solid	DI Leach	
890-1846-8	C-1210 3.5'	Soluble	Solid	DI Leach	
890-1846-9	C-1212 2.5'	Soluble	Solid	DI Leach	
890-1846-10	C-1198 2.5'	Soluble	Solid	DI Leach	
MB 880-17338/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17338/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17338/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1846-4 MS	C-1231 4.1'	Soluble	Solid	DI Leach	
890-1846-4 MSD	C-1231 4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 17519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1846-1	C-1223 3'	Soluble	Solid	300.0	17338
890-1846-2	C-1230 4.1'	Soluble	Solid	300.0	17338
890-1846-3	C-1233 4.1'	Soluble	Solid	300.0	17338
890-1846-4	C-1231 4.1'	Soluble	Solid	300.0	17338
890-1846-5	C-1232 4.1'	Soluble	Solid	300.0	17338
890-1846-6	C-1208 2.5'	Soluble	Solid	300.0	17338
890-1846-7	C-1209 3.5'	Soluble	Solid	300.0	17338
890-1846-8	C-1210 3.5'	Soluble	Solid	300.0	17338
890-1846-9	C-1212 2.5'	Soluble	Solid	300.0	17338
890-1846-10	C-1198 2.5'	Soluble	Solid	300.0	17338
MB 880-17338/1-A	Method Blank	Soluble	Solid	300.0	17338
LCS 880-17338/2-A	Lab Control Sample	Soluble	Solid	300.0	17338
LCSD 880-17338/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17338
890-1846-4 MS	C-1231 4.1'	Soluble	Solid	300.0	17338
890-1846-4 MSD	C-1231 4.1'	Soluble	Solid	300.0	17338

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Client Sample ID: C-1223 3'

Lab Sample ID: 890-1846-1

Date Collected: 01/17/22 12:30

Matrix: Solid

Date Received: 01/18/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 12:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 17:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17372	01/20/22 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17328	01/20/22 20:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 20:12	CH	XEN MID

Client Sample ID: C-1230 4.1'

Lab Sample ID: 890-1846-2

Date Collected: 01/17/22 12:50

Matrix: Solid

Date Received: 01/18/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 12:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 17:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17372	01/20/22 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17328	01/20/22 21:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 20:24	CH	XEN MID

Client Sample ID: C-1233 4.1'

Lab Sample ID: 890-1846-3

Date Collected: 01/17/22 12:58

Matrix: Solid

Date Received: 01/18/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 13:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 17:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17372	01/20/22 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17328	01/20/22 22:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 20:35	CH	XEN MID

Client Sample ID: C-1231 4.1'

Lab Sample ID: 890-1846-4

Date Collected: 01/17/22 13:58

Matrix: Solid

Date Received: 01/18/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 13:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 17:18	AJ	XEN MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Client Sample ID: C-1231 4.1'**Lab Sample ID: 890-1846-4****Date Collected: 01/17/22 13:58****Matrix: Solid****Date Received: 01/18/22 15:27**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17372	01/20/22 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17328	01/20/22 22:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 20:47	CH	XEN MID

Client Sample ID: C-1232 4.1'**Lab Sample ID: 890-1846-5****Date Collected: 01/17/22 14:22****Matrix: Solid****Date Received: 01/18/22 15:27**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 14:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 17:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17372	01/20/22 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17328	01/20/22 22:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 21:23	CH	XEN MID

Client Sample ID: C-1208 2.5'**Lab Sample ID: 890-1846-6****Date Collected: 01/18/22 09:30****Matrix: Solid****Date Received: 01/18/22 15:27**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 14:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 17:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17372	01/20/22 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17328	01/20/22 23:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 21:35	CH	XEN MID

Client Sample ID: C-1209 3.5'**Lab Sample ID: 890-1846-7****Date Collected: 01/18/22 10:11****Matrix: Solid****Date Received: 01/18/22 15:27**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 15:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 17:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17372	01/20/22 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17328	01/20/22 23:26	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Client Sample ID: C-1209 3.5'

Lab Sample ID: 890-1846-7

Date Collected: 01/18/22 10:11

Matrix: Solid

Date Received: 01/18/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 22:10	CH	XEN MID

Client Sample ID: C-1210 3.5'

Lab Sample ID: 890-1846-8

Date Collected: 01/18/22 10:15

Matrix: Solid

Date Received: 01/18/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 15:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 17:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17372	01/20/22 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17328	01/20/22 23:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 22:22	CH	XEN MID

Client Sample ID: C-1212 2.5'

Lab Sample ID: 890-1846-9

Date Collected: 01/18/22 10:38

Matrix: Solid

Date Received: 01/18/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 16:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 17:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17372	01/20/22 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17328	01/21/22 00:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 22:34	CH	XEN MID

Client Sample ID: C-1198 2.5'

Lab Sample ID: 890-1846-10

Date Collected: 01/18/22 10:58

Matrix: Solid

Date Received: 01/18/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 16:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 17:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17372	01/20/22 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17328	01/21/22 00:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 22:46	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1846-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1846-1	C-1223 3'	Solid	01/17/22 12:30	01/18/22 15:27	3'
890-1846-2	C-1230 4.1'	Solid	01/17/22 12:50	01/18/22 15:27	4.1'
890-1846-3	C-1233 4.1'	Solid	01/17/22 12:58	01/18/22 15:27	4.1'
890-1846-4	C-1231 4.1'	Solid	01/17/22 13:58	01/18/22 15:27	4.1'
890-1846-5	C-1232 4.1'	Solid	01/17/22 14:22	01/18/22 15:27	4.1'
890-1846-6	C-1208 2.5'	Solid	01/18/22 09:30	01/18/22 15:27	2.5'
890-1846-7	C-1209 3.5'	Solid	01/18/22 10:11	01/18/22 15:27	3.5'
890-1846-8	C-1210 3.5'	Solid	01/18/22 10:15	01/18/22 15:27	3.5'
890-1846-9	C-1212 2.5'	Solid	01/18/22 10:38	01/18/22 15:27	2.5'
890-1846-10	C-1198 2.5'	Solid	01/18/22 10:58	01/18/22 15:27	2.5'



507 N. Marlenfield, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 1/18/2022 PAGE 1 OF 1
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: PALMUD A5T
LAI PROJECT #: 21-0105-02 COLLECTOR: DSG

CHAIN-OF-CUSTODY

No. 2254

TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		PRESERVATION		ANALYSES		FIELD NOTES	
TIME ZONE	Time zone/State	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ NaOH	ICE	UNPRESERVED
AST / NM											
C-1223	3'		1/17/22	1230	S	1	X				X
C-1230	4.1'			1250	S	1	X				X
C-1233	4.1'			1258	S	1	X				X
C-1231	4.1'			1358	S	1	X				X
C-1232	4.1'			1422	S	1	X				X
C-1208	2.5'		1/18/22	0930	S	1	X				X
C-1204	3.5'			1011	S	1	X				X
C-1210	3.5'			1015	S	1	X				X
C-1212	2.5'			1038	S	1	X				X
C-1198	2.5'			1058	S	1	X				X
TOTAL	10										
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME		TURN AROUND TIME		LABORATORY USE ONLY:	
<u>[Signature]</u>		1/18/22 3:27		<u>[Signature]</u>				NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐		RECEIVING TEMP <u>1.6/14</u> THERM# <u>T-NM-007</u>	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME		CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED		CARRIER BILL # _____	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME		LABORATORY DELIVERED ☒			

890-1846 Chain of Custody



Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1846-1

SDG Number: 21-0105-02

Login Number: 1846

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1846-1

SDG Number: 21-0105-02

Login Number: 1846

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/20/22 11:57 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1848-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
1/25/2022 11:42:58 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1848-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Job ID: 890-1848-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-1848-1**

Receipt

The samples were received on 1/19/2022 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17428 and analytical batch 880-17427 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-1108 2.5' (890-1848-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-17628/2-A) and (LCSD 880-17628/3-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Client Sample ID: C-1108 2.5'

Lab Sample ID: 890-1848-1

Date Collected: 01/19/22 09:29

Matrix: Solid

Date Received: 01/19/22 15:30

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/22/22 16:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/22/22 16:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/22/22 16:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/21/22 16:00	01/22/22 16:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/22/22 16:26	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/21/22 16:00	01/22/22 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	01/21/22 16:00	01/22/22 16:26	1
1,4-Difluorobenzene (Surr)	113		70 - 130	01/21/22 16:00	01/22/22 16:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/24/22 14:40	01/25/22 04:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/24/22 14:40	01/25/22 04:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/24/22 14:40	01/25/22 04:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	01/24/22 14:40	01/25/22 04:51	1
o-Terphenyl (Surr)	114		70 - 130	01/24/22 14:40	01/25/22 04:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	256		4.95	mg/Kg			01/22/22 22:58	1

Client Sample ID: C-1110 2.5'

Lab Sample ID: 890-1848-2

Date Collected: 01/19/22 10:48

Matrix: Solid

Date Received: 01/19/22 15:30

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/21/22 16:00	01/22/22 16:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/21/22 16:00	01/22/22 16:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/21/22 16:00	01/22/22 16:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/21/22 16:00	01/22/22 16:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/21/22 16:00	01/22/22 16:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/21/22 16:00	01/22/22 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	01/21/22 16:00	01/22/22 16:47	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Client Sample ID: C-1110 2.5'

Lab Sample ID: 890-1848-2

Date Collected: 01/19/22 10:48

Matrix: Solid

Date Received: 01/19/22 15:30

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	01/21/22 16:00	01/22/22 16:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/25/22 05:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/25/22 05:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/25/22 05:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			01/24/22 14:40	01/25/22 05:12	1
o-Terphenyl (Surr)	97		70 - 130			01/24/22 14:40	01/25/22 05:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		5.05	mg/Kg			01/22/22 23:09	1

Client Sample ID: C-1260 0-4.1'

Lab Sample ID: 890-1848-3

Date Collected: 01/19/22 14:08

Matrix: Solid

Date Received: 01/19/22 15:30

Sample Depth: 0 - 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/21/22 16:00	01/22/22 17:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/21/22 16:00	01/22/22 17:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/21/22 16:00	01/22/22 17:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/21/22 16:00	01/22/22 17:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/21/22 16:00	01/22/22 17:07	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/21/22 16:00	01/22/22 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	01/21/22 16:00	01/22/22 17:07	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/21/22 16:00	01/22/22 17:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:43	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Client Sample ID: C-1260 0-4.1'

Lab Sample ID: 890-1848-3

Date Collected: 01/19/22 14:08

Matrix: Solid

Date Received: 01/19/22 15:30

Sample Depth: 0 - 4.1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/24/22 14:40	01/25/22 05:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/24/22 14:40	01/25/22 05:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/24/22 14:40	01/25/22 05:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			01/24/22 14:40	01/25/22 05:33	1
o-Terphenyl (Surr)	96		70 - 130			01/24/22 14:40	01/25/22 05:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	365		5.00	mg/Kg			01/22/22 23:21	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-10455-A-1-A MS	Matrix Spike	134 S1+	107
880-10455-A-1-B MSD	Matrix Spike Duplicate	120	106
890-1848-1	C-1108 2.5'	134 S1+	113
890-1848-2	C-1110 2.5'	124	100
890-1848-3	C-1260 0-4.1'	125	101
LCS 880-17428/1-A	Lab Control Sample	120	106
MB 880-17388/5-A	Method Blank	119	101
MB 880-17428/5-A	Method Blank	130	106
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
LCSD 880-17428/2-A	Lab Control Sample Dup		
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
820-3188-A-41-F MS	Matrix Spike	95	105
820-3188-A-41-G MSD	Matrix Spike Duplicate	97	103
880-10392-A-8-F MS	Matrix Spike	85	82
880-10392-A-8-G MSD	Matrix Spike Duplicate	85	82
890-1848-1	C-1108 2.5'	96	114
890-1848-2	C-1110 2.5'	83	97
890-1848-3	C-1260 0-4.1'	86	96
LCS 880-17530/2-A	Lab Control Sample	121	123
LCS 880-17628/2-A	Lab Control Sample	126	145 S1+
LCSD 880-17530/3-A	Lab Control Sample Dup	119	124
LCSD 880-17628/3-A	Lab Control Sample Dup	118	140 S1+
MB 880-17530/1-A	Method Blank	97	109
MB 880-17628/1-A	Method Blank	103	124
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17388/5-A

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17388

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/21/22 07:30	01/21/22 23:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/21/22 07:30	01/21/22 23:24	1
Ethylbenzene	0.003137		0.00200	mg/Kg		01/21/22 07:30	01/21/22 23:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/21/22 07:30	01/21/22 23:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/21/22 07:30	01/21/22 23:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/21/22 07:30	01/21/22 23:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	01/21/22 07:30	01/21/22 23:24	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/21/22 07:30	01/21/22 23:24	1

Lab Sample ID: MB 880-17428/5-A

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17428

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/21/22 08:47	01/22/22 11:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/21/22 08:47	01/22/22 11:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/21/22 08:47	01/22/22 11:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/21/22 08:47	01/22/22 11:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/21/22 08:47	01/22/22 11:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/21/22 08:47	01/22/22 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	01/21/22 08:47	01/22/22 11:02	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/21/22 08:47	01/22/22 11:02	1

Lab Sample ID: LCS 880-17428/1-A

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09354		mg/Kg		94	70 - 130
Toluene	0.100	0.09710		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.1913		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09514		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-17428/2-A

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08759		mg/Kg					

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-17428/2-A

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.09362		mg/Kg					
Ethylbenzene	0.100	0.09993		mg/Kg					
m-Xylene & p-Xylene	0.200	0.1947		mg/Kg					
o-Xylene	0.100	0.09564		mg/Kg					

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 880-10455-A-1-A MS

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0996	0.06727	F1	mg/Kg		68	70 - 130		
Toluene	<0.00199	U F1	0.0996	0.06103	F1	mg/Kg		61	70 - 130		
Ethylbenzene	<0.00199	U F1	0.0996	0.05831	F1	mg/Kg		59	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1231	F1	mg/Kg		62	70 - 130		
o-Xylene	<0.00199	U F1	0.0996	0.06767	F1	mg/Kg		67	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-10455-A-1-B MSD

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17428

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.07517		mg/Kg		75	70 - 130	11	35
Toluene	<0.00199	U F1	0.100	0.07027		mg/Kg		70	70 - 130	14	35
Ethylbenzene	<0.00199	U F1	0.100	0.06749	F1	mg/Kg		67	70 - 130	15	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1328	F1	mg/Kg		66	70 - 130	8	35
o-Xylene	<0.00199	U F1	0.100	0.07213		mg/Kg		71	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-17530/1-A

Matrix: Solid

Analysis Batch: 17551

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17530

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/24/22 09:22	01/24/22 11:46	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-17530/1-A

Matrix: Solid

Analysis Batch: 17551

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17530

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/24/22 09:22	01/24/22 11:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/24/22 09:22	01/24/22 11:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			01/24/22 09:22	01/24/22 11:46	1
o-Terphenyl (Surr)	109		70 - 130			01/24/22 09:22	01/24/22 11:46	1

Lab Sample ID: LCS 880-17530/2-A

Matrix: Solid

Analysis Batch: 17551

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1026		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	966.6		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	121		70 - 130				
o-Terphenyl (Surr)	123		70 - 130				

Lab Sample ID: LCSD 880-17530/3-A

Matrix: Solid

Analysis Batch: 17551

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17530

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	981.2		mg/Kg		98	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	959.9		mg/Kg		96	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	119		70 - 130						
o-Terphenyl (Surr)	124		70 - 130						

Lab Sample ID: 880-10392-A-8-F MS

Matrix: Solid

Analysis Batch: 17551

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17530

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1274		mg/Kg		128	70 - 130
Diesel Range Organics (Over C10-C28)	51.4		997	1185		mg/Kg		114	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	85		70 - 130						
o-Terphenyl (Surr)	82		70 - 130						

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-10392-A-8-G MSD

Matrix: Solid

Analysis Batch: 17551

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17530

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1257		mg/Kg		126	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	51.4		996	1204		mg/Kg		116	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	85		70 - 130								
o-Terphenyl (Surr)	82		70 - 130								

Lab Sample ID: MB 880-17628/1-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17628

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/24/22 22:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/24/22 22:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/24/22 22:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			01/24/22 14:40	01/24/22 22:57	1
o-Terphenyl (Surr)	124		70 - 130			01/24/22 14:40	01/24/22 22:57	1

Lab Sample ID: LCS 880-17628/2-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	817.6		mg/Kg		82	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1219		mg/Kg		122	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane (Surr)	126		70 - 130					
o-Terphenyl (Surr)	145	S1+	70 - 130					

Lab Sample ID: LCSD 880-17628/3-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17628

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	780.0		mg/Kg		78	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1161		mg/Kg		116	70 - 130	5	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-17628/3-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17628

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	118		70 - 130
o-Terphenyl (Surr)	140	S1+	70 - 130

Lab Sample ID: 820-3188-A-41-F MS

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17628

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1005		mg/Kg		98	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1286		mg/Kg		126	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	95		70 - 130							
o-Terphenyl (Surr)	105		70 - 130							

Lab Sample ID: 820-3188-A-41-G MSD

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17628

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1018		mg/Kg		99	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1298		mg/Kg		127	70 - 130	1	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	97		70 - 130									
o-Terphenyl (Surr)	103		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17338/1-A

Matrix: Solid

Analysis Batch: 17519

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac	
Chloride	<5.00	U	5.00	mg/Kg			01/22/22 17:26		1	

Lab Sample ID: LCS 880-17338/2-A

Matrix: Solid

Analysis Batch: 17519

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	253.1		mg/Kg		101	90 - 110		

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-17338/3-A

Matrix: Solid

Analysis Batch: 17519

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	268.1		mg/Kg		107	90 - 110	6	20

Lab Sample ID: 890-1846-A-4-D MS

Matrix: Solid

Analysis Batch: 17519

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	314		249	560.8		mg/Kg		99	90 - 110		

Lab Sample ID: 890-1846-A-4-E MSD

Matrix: Solid

Analysis Batch: 17519

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	314		249	582.6		mg/Kg		108	90 - 110	4	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

GC VOA

Prep Batch: 17388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17388/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 17427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1848-1	C-1108 2.5'	Total/NA	Solid	8021B	17428
890-1848-2	C-1110 2.5'	Total/NA	Solid	8021B	17428
890-1848-3	C-1260 0-4.1'	Total/NA	Solid	8021B	17428
MB 880-17388/5-A	Method Blank	Total/NA	Solid	8021B	17388
MB 880-17428/5-A	Method Blank	Total/NA	Solid	8021B	17428
LCS 880-17428/1-A	Lab Control Sample	Total/NA	Solid	8021B	17428
LCSD 880-17428/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17428
880-10455-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	17428
880-10455-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17428

Prep Batch: 17428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1848-1	C-1108 2.5'	Total/NA	Solid	5035	
890-1848-2	C-1110 2.5'	Total/NA	Solid	5035	
890-1848-3	C-1260 0-4.1'	Total/NA	Solid	5035	
MB 880-17428/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17428/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17428/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10455-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-10455-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1848-1	C-1108 2.5'	Total/NA	Solid	Total BTEX	
890-1848-2	C-1110 2.5'	Total/NA	Solid	Total BTEX	
890-1848-3	C-1260 0-4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 17530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17530/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17530/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17530/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10392-A-8-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10392-A-8-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1848-1	C-1108 2.5'	Total/NA	Solid	8015B NM	17628
890-1848-2	C-1110 2.5'	Total/NA	Solid	8015B NM	17628
890-1848-3	C-1260 0-4.1'	Total/NA	Solid	8015B NM	17628
MB 880-17628/1-A	Method Blank	Total/NA	Solid	8015B NM	17628
LCS 880-17628/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17628
LCSD 880-17628/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17628
820-3188-A-41-F MS	Matrix Spike	Total/NA	Solid	8015B NM	17628
820-3188-A-41-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17628

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 17551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17530/1-A	Method Blank	Total/NA	Solid	8015B NM	17530
LCS 880-17530/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17530
LCSD 880-17530/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17530
880-10392-A-8-F MS	Matrix Spike	Total/NA	Solid	8015B NM	17530
880-10392-A-8-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17530

Prep Batch: 17628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1848-1	C-1108 2.5'	Total/NA	Solid	8015NM Prep	
890-1848-2	C-1110 2.5'	Total/NA	Solid	8015NM Prep	
890-1848-3	C-1260 0-4.1'	Total/NA	Solid	8015NM Prep	
MB 880-17628/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17628/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17628/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-3188-A-41-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
820-3188-A-41-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1848-1	C-1108 2.5'	Total/NA	Solid	8015 NM	
890-1848-2	C-1110 2.5'	Total/NA	Solid	8015 NM	
890-1848-3	C-1260 0-4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 17338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1848-1	C-1108 2.5'	Soluble	Solid	DI Leach	
890-1848-2	C-1110 2.5'	Soluble	Solid	DI Leach	
890-1848-3	C-1260 0-4.1'	Soluble	Solid	DI Leach	
MB 880-17338/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17338/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17338/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1846-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1846-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 17519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1848-1	C-1108 2.5'	Soluble	Solid	300.0	17338
890-1848-2	C-1110 2.5'	Soluble	Solid	300.0	17338
890-1848-3	C-1260 0-4.1'	Soluble	Solid	300.0	17338
MB 880-17338/1-A	Method Blank	Soluble	Solid	300.0	17338
LCS 880-17338/2-A	Lab Control Sample	Soluble	Solid	300.0	17338
LCSD 880-17338/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17338
890-1846-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	17338
890-1846-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17338

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Client Sample ID: C-1108 2.5'

Lab Sample ID: 890-1848-1

Date Collected: 01/19/22 09:29

Matrix: Solid

Date Received: 01/19/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	17428	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 16:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 04:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 22:58	CH	XEN MID

Client Sample ID: C-1110 2.5'

Lab Sample ID: 890-1848-2

Date Collected: 01/19/22 10:48

Matrix: Solid

Date Received: 01/19/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17428	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 16:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 05:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 23:09	CH	XEN MID

Client Sample ID: C-1260 0-4.1'

Lab Sample ID: 890-1848-3

Date Collected: 01/19/22 14:08

Matrix: Solid

Date Received: 01/19/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17428	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 17:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 05:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17338	01/20/22 09:22	CH	XEN MID
Soluble	Analysis	300.0		1			17519	01/22/22 23:21	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1848-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1848-1	C-1108 2.5'	Solid	01/19/22 09:29	01/19/22 15:30	2.5
890-1848-2	C-1110 2.5'	Solid	01/19/22 10:48	01/19/22 15:30	2.5
890-1848-3	C-1260 0-4.1'	Solid	01/19/22 14:08	01/19/22 15:30	0 - 4.1

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Environmental Consultants

507 N. Marientfeld, Ste. 202

Midland, TX 79701

432.687.0901

No. 2255
CHAIN-OF-CUSTODY

Data Reported to

DATE: 11/17/2022 PAGE 1 OF 1
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: PALMIO A57
LAI PROJECT #: 21-0105-02 COLLECTOR: BSG

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State

MST/NT

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX ☒ MTBE ☒

TPH 418 ☒ TPH 1005 ☒ TPH 1006 ☒

GASOLINE MOD 8015 ☒

DIESEL - MOD 8015 ☒

OIL - MOD 8015 ☒

VOC 8260 ☒

SVOC 8270 ☒

8081 PESTICIDES ☒

8082 PESTICIDES ☒

TCLP - METALS ☒

TCLP - METALS (RCRA) ☒

TCLP - PEST ☒

TCLP - PEST (RCRA) ☒

LEAD - TOTAL ☒

RCI ☒

TDS ☒

pH ☒

% MOISTURE ☒

EXPLOSIVES ☒

HEXA-VALENT CHROMIUM ☒

PECHLORATE ☒

CHLORIDES ☒

ANIONS ☒

ALKALINITY ☒

FIELD NOTES

890-1848 Chain of Custody



TOTAL 3

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

DATE/TIME

TURN AROUND TIME

LABORATORY USE

RECEIVING TEMP

THERM#

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

DATE/TIME

TURN AROUND TIME

LABORATORY USE

RECEIVING TEMP

THERM#

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RECEIVED BY (Signature)

DATE/TIME

TURN AROUND TIME

LABORATORY USE

RECEIVING TEMP

THERM#

LABORATORY

XENUCO

TURN AROUND TIME

LABORATORY USE

RECEIVING TEMP

THERM#

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1848-1

SDG Number: 21-0105-02

Login Number: 1848

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1848-1

SDG Number: 21-0105-02

Login Number: 1848

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/21/22 11:59 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1852-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: PALMIO AST
Revision: 1

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
2/2/2022 10:30:38 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Laboratory Job ID: 890-1852-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Job ID: 890-1852-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1852-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 1/28/2022. The report (revision 1) is being revised to change sample ID C-106 2' to C-1006 2' per Daniel St. Germain (email).

Receipt

The samples were received on 1/20/2022 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.2° C.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The continuing calibration verification (CCV) associated with batch 880-17546 recovered above the upper control limit for Diesel Range Organics (Over C10-C28) The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-17546/30), (CCV 880-17546/46) and (CCV 880-17546/57).

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-17628/2-A) and (LCSD 880-17628/3-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17550 and analytical batch 880-17639 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Client Sample ID: C-1008 2'

Lab Sample ID: 890-1852-1

Date Collected: 01/20/22 08:32

Matrix: Solid

Date Received: 01/20/22 15:14

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/25/22 07:13	01/25/22 12:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/25/22 07:13	01/25/22 12:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/25/22 07:13	01/25/22 12:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/25/22 07:13	01/25/22 12:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/25/22 07:13	01/25/22 12:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/25/22 07:13	01/25/22 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	01/25/22 07:13	01/25/22 12:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/25/22 07:13	01/25/22 12:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/25/22 05:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/25/22 05:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/25/22 05:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	01/24/22 14:40	01/25/22 05:54	1
o-Terphenyl (Surr)	102		70 - 130	01/24/22 14:40	01/25/22 05:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3060		99.2	mg/Kg			01/24/22 18:47	20

Client Sample ID: C-1007 2'

Lab Sample ID: 890-1852-2

Date Collected: 01/20/22 09:40

Matrix: Solid

Date Received: 01/20/22 15:14

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/25/22 07:13	01/25/22 13:02	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/25/22 07:13	01/25/22 13:02	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/25/22 07:13	01/25/22 13:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/25/22 07:13	01/25/22 13:02	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/25/22 07:13	01/25/22 13:02	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/25/22 07:13	01/25/22 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	01/25/22 07:13	01/25/22 13:02	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Client Sample ID: C-1007 2'

Lab Sample ID: 890-1852-2

Date Collected: 01/20/22 09:40

Matrix: Solid

Date Received: 01/20/22 15:14

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	01/25/22 07:13	01/25/22 13:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/25/22 06:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/25/22 06:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/25/22 06:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			01/24/22 14:40	01/25/22 06:15	1
o-Terphenyl (Surr)	107		70 - 130			01/24/22 14:40	01/25/22 06:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.9		5.00	mg/Kg			01/24/22 18:59	1

Client Sample ID: C-1006 2'

Lab Sample ID: 890-1852-3

Date Collected: 01/20/22 09:47

Matrix: Solid

Date Received: 01/20/22 15:14

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/25/22 07:13	01/25/22 13:22	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/25/22 07:13	01/25/22 13:22	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/25/22 07:13	01/25/22 13:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/25/22 07:13	01/25/22 13:22	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/25/22 07:13	01/25/22 13:22	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/25/22 07:13	01/25/22 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/25/22 07:13	01/25/22 13:22	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/25/22 07:13	01/25/22 13:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:43	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Client Sample ID: C-1006 2'

Lab Sample ID: 890-1852-3

Date Collected: 01/20/22 09:47

Matrix: Solid

Date Received: 01/20/22 15:14

Sample Depth: 2

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/24/22 14:40	01/25/22 06:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/24/22 14:40	01/25/22 06:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/24/22 14:40	01/25/22 06:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			01/24/22 14:40	01/25/22 06:36	1
o-Terphenyl (Surr)	104		70 - 130			01/24/22 14:40	01/25/22 06:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		4.95	mg/Kg			01/28/22 00:06	1

Client Sample ID: C-1247 0-4.1

Lab Sample ID: 890-1852-4

Date Collected: 01/20/22 12:40

Matrix: Solid

Date Received: 01/20/22 15:14

Sample Depth: 0 - 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/25/22 07:13	01/25/22 13:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/25/22 07:13	01/25/22 13:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/25/22 07:13	01/25/22 13:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/25/22 07:13	01/25/22 13:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/25/22 07:13	01/25/22 13:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/25/22 07:13	01/25/22 13:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			01/25/22 07:13	01/25/22 13:43	1
1,4-Difluorobenzene (Surr)	107		70 - 130			01/25/22 07:13	01/25/22 13:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/24/22 14:40	01/25/22 06:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/24/22 14:40	01/25/22 06:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/24/22 14:40	01/25/22 06:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			01/24/22 14:40	01/25/22 06:58	1
o-Terphenyl (Surr)	97		70 - 130			01/24/22 14:40	01/25/22 06:58	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Client Sample ID: C-1247 0-4.1

Lab Sample ID: 890-1852-4

Date Collected: 01/20/22 12:40

Matrix: Solid

Date Received: 01/20/22 15:14

Sample Depth: 0 - 4.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		4.99	mg/Kg			01/28/22 00:42	1

Client Sample ID: C-1261 0-1

Lab Sample ID: 890-1852-5

Date Collected: 01/20/22 14:00

Matrix: Solid

Date Received: 01/20/22 15:14

Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/25/22 07:13	01/25/22 14:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/25/22 07:13	01/25/22 14:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/25/22 07:13	01/25/22 14:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/25/22 07:13	01/25/22 14:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/25/22 07:13	01/25/22 14:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/25/22 07:13	01/25/22 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			01/25/22 07:13	01/25/22 14:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130			01/25/22 07:13	01/25/22 14:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/25/22 07:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/25/22 07:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/25/22 07:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			01/24/22 14:40	01/25/22 07:20	1
o-Terphenyl (Surr)	106		70 - 130			01/24/22 14:40	01/25/22 07:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		4.96	mg/Kg			01/28/22 00:54	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-10483-A-31-D MS	Matrix Spike	103	105
880-10483-A-31-E MSD	Matrix Spike Duplicate	106	99
890-1852-1	C-1008 2'	115	102
890-1852-2	C-1007 2'	114	103
890-1852-3	C-1006 2'	118	103
890-1852-4	C-1247 0-4.1	124	107
890-1852-5	C-1261 0-1	116	100
LCS 880-17651/1-A	Lab Control Sample	96	106
LCSD 880-17651/2-A	Lab Control Sample Dup	101	99
MB 880-17651/5-A	Method Blank	104	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
820-3188-A-41-F MS	Matrix Spike	95	105
820-3188-A-41-G MSD	Matrix Spike Duplicate	97	103
890-1852-1	C-1008 2'	88	102
890-1852-2	C-1007 2'	89	107
890-1852-3	C-1006 2'	90	104
890-1852-4	C-1247 0-4.1	84	97
890-1852-5	C-1261 0-1	90	106
LCS 880-17628/2-A	Lab Control Sample	126	145 S1+
LCSD 880-17628/3-A	Lab Control Sample Dup	118	140 S1+
MB 880-17628/1-A	Method Blank	103	124

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17651/5-A

Matrix: Solid

Analysis Batch: 17652

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17651

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/25/22 07:13	01/25/22 10:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/25/22 07:13	01/25/22 10:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/25/22 07:13	01/25/22 10:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/25/22 07:13	01/25/22 10:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/25/22 07:13	01/25/22 10:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/25/22 07:13	01/25/22 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	01/25/22 07:13	01/25/22 10:38	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/25/22 07:13	01/25/22 10:38	1

Lab Sample ID: LCS 880-17651/1-A

Matrix: Solid

Analysis Batch: 17652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08637		mg/Kg		86	70 - 130
Toluene	0.100	0.07496		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07679		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1563		mg/Kg		78	70 - 130
o-Xylene	0.100	0.07613		mg/Kg		76	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-17651/2-A

Matrix: Solid

Analysis Batch: 17652

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17651

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09341		mg/Kg		93	70 - 130	8	35
Toluene	0.100	0.08777		mg/Kg		88	70 - 130	16	35
Ethylbenzene	0.100	0.08431		mg/Kg		84	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1758		mg/Kg		88	70 - 130	12	35
o-Xylene	0.100	0.08578		mg/Kg		86	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-10483-A-31-D MS

Matrix: Solid

Analysis Batch: 17652

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.101	0.09564		mg/Kg		95	70 - 130
Toluene	<0.00200	U	0.101	0.08614		mg/Kg		85	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-10483-A-31-D MS

Matrix: Solid

Analysis Batch: 17652

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.101	0.08454		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.202	0.1734		mg/Kg		86	70 - 130
o-Xylene	<0.00200	U	0.101	0.08391		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-10483-A-31-E MSD

Matrix: Solid

Analysis Batch: 17652

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17651

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.09453		mg/Kg		95	70 - 130	1	35
Toluene	<0.00200	U	0.0994	0.08605		mg/Kg		87	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0994	0.09097		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.1887		mg/Kg		95	70 - 130	8	35
o-Xylene	<0.00200	U	0.0994	0.09057		mg/Kg		91	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-17628/1-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17628

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/24/22 22:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/24/22 22:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/24/22 14:40	01/24/22 22:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	01/24/22 14:40	01/24/22 22:57	1
o-Terphenyl (Surr)	124		70 - 130	01/24/22 14:40	01/24/22 22:57	1

Lab Sample ID: LCS 880-17628/2-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	817.6		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1219		mg/Kg		122	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-17628/2-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17628

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	126		70 - 130
o-Terphenyl (Surr)	145	S1+	70 - 130

Lab Sample ID: LCSD 880-17628/3-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17628

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	780.0		mg/Kg		78	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1161		mg/Kg		116	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	118		70 - 130
o-Terphenyl (Surr)	140	S1+	70 - 130

Lab Sample ID: 820-3188-A-41-F MS

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17628

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1005		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1286		mg/Kg		126	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	105		70 - 130

Lab Sample ID: 820-3188-A-41-G MSD

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17628

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1018		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1298		mg/Kg		127	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	97		70 - 130
o-Terphenyl (Surr)	103		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17550/1-A

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/24/22 15:49	1

Lab Sample ID: LCS 880-17550/2-A

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.9		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-17550/3-A

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	245.7		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-1851-A-1-E MS

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1830	F1	1250	3227	F1	mg/Kg		111	90 - 110

Lab Sample ID: 890-1851-A-1-F MSD

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1830	F1	1250	3169		mg/Kg		107	90 - 110	2	20

Lab Sample ID: 890-1853-A-1-G MS

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12.9		250	262.5		mg/Kg		100	90 - 110

Lab Sample ID: 890-1853-A-1-H MSD

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12.9		250	262.5		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-17706/1-A

Matrix: Solid

Analysis Batch: 17736

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/27/22 23:31	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-17706/2-A

Matrix: Solid

Analysis Batch: 17736

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	248.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-17706/3-A

Matrix: Solid

Analysis Batch: 17736

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.2		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1852-3 MS

Matrix: Solid

Analysis Batch: 17736

Client Sample ID: C-1006 2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	188		248	444.8		mg/Kg		104	90 - 110

Lab Sample ID: 890-1852-3 MSD

Matrix: Solid

Analysis Batch: 17736

Client Sample ID: C-1006 2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	188		248	450.2		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

GC VOA

Prep Batch: 17651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1852-1	C-1008 2'	Total/NA	Solid	5035	
890-1852-2	C-1007 2'	Total/NA	Solid	5035	
890-1852-3	C-1006 2'	Total/NA	Solid	5035	
890-1852-4	C-1247 0-4.1	Total/NA	Solid	5035	
890-1852-5	C-1261 0-1	Total/NA	Solid	5035	
MB 880-17651/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17651/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17651/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10483-A-31-D MS	Matrix Spike	Total/NA	Solid	5035	
880-10483-A-31-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1852-1	C-1008 2'	Total/NA	Solid	8021B	17651
890-1852-2	C-1007 2'	Total/NA	Solid	8021B	17651
890-1852-3	C-1006 2'	Total/NA	Solid	8021B	17651
890-1852-4	C-1247 0-4.1	Total/NA	Solid	8021B	17651
890-1852-5	C-1261 0-1	Total/NA	Solid	8021B	17651
MB 880-17651/5-A	Method Blank	Total/NA	Solid	8021B	17651
LCS 880-17651/1-A	Lab Control Sample	Total/NA	Solid	8021B	17651
LCSD 880-17651/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17651
880-10483-A-31-D MS	Matrix Spike	Total/NA	Solid	8021B	17651
880-10483-A-31-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17651

Analysis Batch: 17693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1852-1	C-1008 2'	Total/NA	Solid	Total BTEX	
890-1852-2	C-1007 2'	Total/NA	Solid	Total BTEX	
890-1852-3	C-1006 2'	Total/NA	Solid	Total BTEX	
890-1852-4	C-1247 0-4.1	Total/NA	Solid	Total BTEX	
890-1852-5	C-1261 0-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 17546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1852-1	C-1008 2'	Total/NA	Solid	8015B NM	17628
890-1852-2	C-1007 2'	Total/NA	Solid	8015B NM	17628
890-1852-3	C-1006 2'	Total/NA	Solid	8015B NM	17628
890-1852-4	C-1247 0-4.1	Total/NA	Solid	8015B NM	17628
890-1852-5	C-1261 0-1	Total/NA	Solid	8015B NM	17628
MB 880-17628/1-A	Method Blank	Total/NA	Solid	8015B NM	17628
LCS 880-17628/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17628
LCSD 880-17628/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17628
820-3188-A-41-F MS	Matrix Spike	Total/NA	Solid	8015B NM	17628
820-3188-A-41-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17628

Prep Batch: 17628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1852-1	C-1008 2'	Total/NA	Solid	8015NM Prep	
890-1852-2	C-1007 2'	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 17628 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1852-3	C-1006 2'	Total/NA	Solid	8015NM Prep	
890-1852-4	C-1247 0-4.1	Total/NA	Solid	8015NM Prep	
890-1852-5	C-1261 0-1	Total/NA	Solid	8015NM Prep	
MB 880-17628/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17628/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17628/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-3188-A-41-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
820-3188-A-41-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1852-1	C-1008 2'	Total/NA	Solid	8015 NM	
890-1852-2	C-1007 2'	Total/NA	Solid	8015 NM	
890-1852-3	C-1006 2'	Total/NA	Solid	8015 NM	
890-1852-4	C-1247 0-4.1	Total/NA	Solid	8015 NM	
890-1852-5	C-1261 0-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 17550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1852-1	C-1008 2'	Soluble	Solid	DI Leach	
890-1852-2	C-1007 2'	Soluble	Solid	DI Leach	
MB 880-17550/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17550/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17550/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1851-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1851-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-1853-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1853-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 17639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1852-1	C-1008 2'	Soluble	Solid	300.0	17550
890-1852-2	C-1007 2'	Soluble	Solid	300.0	17550
MB 880-17550/1-A	Method Blank	Soluble	Solid	300.0	17550
LCS 880-17550/2-A	Lab Control Sample	Soluble	Solid	300.0	17550
LCSD 880-17550/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17550
890-1851-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	17550
890-1851-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17550
890-1853-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	17550
890-1853-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17550

Leach Batch: 17706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1852-3	C-1006 2'	Soluble	Solid	DI Leach	
890-1852-4	C-1247 0-4.1	Soluble	Solid	DI Leach	
890-1852-5	C-1261 0-1	Soluble	Solid	DI Leach	
MB 880-17706/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17706/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17706/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 17706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1852-3 MS	C-1006 2'	Soluble	Solid	DI Leach	
890-1852-3 MSD	C-1006 2'	Soluble	Solid	DI Leach	

Analysis Batch: 17736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1852-3	C-1006 2'	Soluble	Solid	300.0	17706
890-1852-4	C-1247 0-4.1	Soluble	Solid	300.0	17706
890-1852-5	C-1261 0-1	Soluble	Solid	300.0	17706
MB 880-17706/1-A	Method Blank	Soluble	Solid	300.0	17706
LCS 880-17706/2-A	Lab Control Sample	Soluble	Solid	300.0	17706
LCSD 880-17706/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17706
890-1852-3 MS	C-1006 2'	Soluble	Solid	300.0	17706
890-1852-3 MSD	C-1006 2'	Soluble	Solid	300.0	17706

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Client Sample ID: C-1008 2'

Date Collected: 01/20/22 08:32

Date Received: 01/20/22 15:14

Lab Sample ID: 890-1852-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17651	01/25/22 07:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17652	01/25/22 12:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 05:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	17550	01/24/22 10:02	CH	XEN MID
Soluble	Analysis	300.0		20			17639	01/24/22 18:47	CH	XEN MID

Client Sample ID: C-1007 2'

Date Collected: 01/20/22 09:40

Date Received: 01/20/22 15:14

Lab Sample ID: 890-1852-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17651	01/25/22 07:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17652	01/25/22 13:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 06:15	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17550	01/24/22 10:02	CH	XEN MID
Soluble	Analysis	300.0		1			17639	01/24/22 18:59	CH	XEN MID

Client Sample ID: C-1006 2'

Date Collected: 01/20/22 09:47

Date Received: 01/20/22 15:14

Lab Sample ID: 890-1852-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17651	01/25/22 07:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17652	01/25/22 13:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 06:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 00:06	CH	XEN MID

Client Sample ID: C-1247 0-4.1

Date Collected: 01/20/22 12:40

Date Received: 01/20/22 15:14

Lab Sample ID: 890-1852-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17651	01/25/22 07:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17652	01/25/22 13:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Client Sample ID: C-1247 0-4.1

Lab Sample ID: 890-1852-4

Date Collected: 01/20/22 12:40

Matrix: Solid

Date Received: 01/20/22 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 06:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 00:42	CH	XEN MID

Client Sample ID: C-1261 0-1

Lab Sample ID: 890-1852-5

Date Collected: 01/20/22 14:00

Matrix: Solid

Date Received: 01/20/22 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17651	01/25/22 07:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17652	01/25/22 14:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 07:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 00:54	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: PALMIO AST

Job ID: 890-1852-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1852-1	C-1008 2'	Solid	01/20/22 08:32	01/20/22 15:14	2
890-1852-2	C-1007 2'	Solid	01/20/22 09:40	01/20/22 15:14	2
890-1852-3	C-1006 2'	Solid	01/20/22 09:47	01/20/22 15:14	2
890-1852-4	C-1247 0-4.1	Solid	01/20/22 12:40	01/20/22 15:14	0 - 4.1
890-1852-5	C-1261 0-1	Solid	01/20/22 14:00	01/20/22 15:14	0 - 1

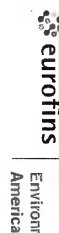
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

[illegible]

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1852-1

SDG Number: 21-0105-02

Login Number: 1852**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1852-1

SDG Number: 21-0105-02

Login Number: 1852**List Number: 2****Creator: Lowe, Katie****List Source: Eurofins Midland****List Creation: 01/24/22 08:29 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1870-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST
Revision: 1

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
2/14/2022 11:37:49 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1870-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Job ID: 890-1870-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1870-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 2/2/2022. The report (revision 1) is being revised to report the results of the re-analysis of CI for sample 1 per Daniel St. Germain (email)..

Receipt

The samples were received on 1/25/2022 3:29 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17863, 880-17863 and 880-17886 and analytical batch 880-17867 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-592 4.1' (890-1870-4), (LCSD 880-17886/2-A), (880-10599-A-4-B MS), (880-10599-A-4-C MSD) and (880-10654-A-21-B MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-17947/3-A), (880-10593-A-21-D MS) and (880-10593-A-21-E MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17959 and analytical batch 880-18071 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18029 and analytical batch 880-18094 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Client Sample ID: C-1243 0-1.5'

Lab Sample ID: 890-1870-1

Date Collected: 01/25/22 10:00

Matrix: Solid

Date Received: 01/25/22 15:29

Sample Depth: 0 - 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/27/22 08:03	01/27/22 17:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/27/22 08:03	01/27/22 17:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/27/22 08:03	01/27/22 17:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/27/22 08:03	01/27/22 17:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/27/22 08:03	01/27/22 17:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/27/22 08:03	01/27/22 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/27/22 08:03	01/27/22 17:49	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/27/22 08:03	01/27/22 17:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/01/22 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/27/22 15:00	01/27/22 23:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/22 15:00	01/27/22 23:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/22 15:00	01/27/22 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	01/27/22 15:00	01/27/22 23:17	1
o-Terphenyl (Surr)	90		70 - 130	01/27/22 15:00	01/27/22 23:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		4.99	mg/Kg			02/11/22 13:20	1

Client Sample ID: C-676 4.1'

Lab Sample ID: 890-1870-2

Date Collected: 01/25/22 12:25

Matrix: Solid

Date Received: 01/25/22 15:29

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/27/22 08:03	01/27/22 18:09	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/27/22 08:03	01/27/22 18:09	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/27/22 08:03	01/27/22 18:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/27/22 08:03	01/27/22 18:09	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/27/22 08:03	01/27/22 18:09	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/27/22 08:03	01/27/22 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	01/27/22 08:03	01/27/22 18:09	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Client Sample ID: C-676 4.1'

Lab Sample ID: 890-1870-2

Date Collected: 01/25/22 12:25

Matrix: Solid

Date Received: 01/25/22 15:29

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	01/27/22 08:03	01/27/22 18:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/01/22 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.4		49.9	mg/Kg			01/31/22 13:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/27/22 15:00	01/27/22 23:37	1
Diesel Range Organics (Over C10-C28)	75.4		49.9	mg/Kg		01/27/22 15:00	01/27/22 23:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/27/22 15:00	01/27/22 23:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			01/27/22 15:00	01/27/22 23:37	1
o-Terphenyl (Surr)	93		70 - 130			01/27/22 15:00	01/27/22 23:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	353		5.04	mg/Kg			01/30/22 02:40	1

Client Sample ID: C-1212 3.5'

Lab Sample ID: 890-1870-3

Date Collected: 01/25/22 13:13

Matrix: Solid

Date Received: 01/25/22 15:29

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 18:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 18:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 18:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/27/22 08:03	01/27/22 18:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 18:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/27/22 08:03	01/27/22 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	01/27/22 08:03	01/27/22 18:30	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/27/22 08:03	01/27/22 18:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			02/01/22 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:01	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Client Sample ID: C-1212 3.5'

Lab Sample ID: 890-1870-3

Date Collected: 01/25/22 13:13

Matrix: Solid

Date Received: 01/25/22 15:29

Sample Depth: 3.5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/27/22 15:00	01/27/22 23:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/22 15:00	01/27/22 23:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/22 15:00	01/27/22 23:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			01/27/22 15:00	01/27/22 23:56	1
o-Terphenyl (Surr)	93		70 - 130			01/27/22 15:00	01/27/22 23:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.3	F1	5.00	mg/Kg			02/01/22 17:38	1

Client Sample ID: C-592 4.1'

Lab Sample ID: 890-1870-4

Date Collected: 01/25/22 14:25

Matrix: Solid

Date Received: 01/25/22 15:29

Sample Depth: 4.1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 18:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 18:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 18:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/27/22 08:03	01/27/22 18:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 18:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/27/22 08:03	01/27/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			01/27/22 08:03	01/27/22 18:50	1
1,4-Difluorobenzene (Surr)	108		70 - 130			01/27/22 08:03	01/27/22 18:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			02/01/22 16:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.1		49.9	mg/Kg			01/31/22 13:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/27/22 15:00	01/28/22 00:17	1
Diesel Range Organics (Over C10-C28)	76.1		49.9	mg/Kg		01/27/22 15:00	01/28/22 00:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/27/22 15:00	01/28/22 00:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			01/27/22 15:00	01/28/22 00:17	1
o-Terphenyl (Surr)	98		70 - 130			01/27/22 15:00	01/28/22 00:17	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Client Sample ID: C-592 4.1'
Date Collected: 01/25/22 14:25
Date Received: 01/25/22 15:29
Sample Depth: 4.1

Lab Sample ID: 890-1870-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1820		24.8	mg/Kg			02/01/22 17:57	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-10599-A-4-B MS	Matrix Spike	70	57 S1-
880-10599-A-4-C MSD	Matrix Spike Duplicate	162 S1+	91
890-1870-1	C-1243 0-1.5'	123	99
890-1870-2	C-676 4.1'	126	99
890-1870-3	C-1212 3.5'	119	101
890-1870-4	C-592 4.1'	133 S1+	108
LCS 880-17863/1-A	Lab Control Sample	108	98
LCSD 880-17863/2-A	Lab Control Sample Dup	105	86
MB 880-17863/5-A	Method Blank	104	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-10593-A-21-D MS	Matrix Spike	74	66 S1-
880-10593-A-21-E MSD	Matrix Spike Duplicate	75	67 S1-
890-1870-1	C-1243 0-1.5'	94	90
890-1870-2	C-676 4.1'	94	93
890-1870-3	C-1212 3.5'	95	93
890-1870-4	C-592 4.1'	94	98
LCS 880-17947/2-A	Lab Control Sample	126	121
LCSD 880-17947/3-A	Lab Control Sample Dup	144 S1+	137 S1+
MB 880-17947/1-A	Method Blank	117	121

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17863/5-A

Matrix: Solid

Analysis Batch: 17867

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17863

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 11:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/27/22 08:03	01/27/22 11:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/27/22 08:03	01/27/22 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	01/27/22 08:03	01/27/22 11:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/27/22 08:03	01/27/22 11:40	1

Lab Sample ID: LCS 880-17863/1-A

Matrix: Solid

Analysis Batch: 17867

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07807		mg/Kg		78	70 - 130
Toluene	0.100	0.07443		mg/Kg		74	70 - 130
Ethylbenzene	0.100	0.07762		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1650		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08230		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-17863/2-A

Matrix: Solid

Analysis Batch: 17867

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17863

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07959		mg/Kg		80	70 - 130	2	35
Toluene	0.100	0.07701		mg/Kg		77	70 - 130	3	35
Ethylbenzene	0.100	0.08359		mg/Kg		84	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1715		mg/Kg		86	70 - 130	4	35
o-Xylene	0.100	0.08472		mg/Kg		85	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-10599-A-4-B MS

Matrix: Solid

Analysis Batch: 17867

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17863

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.0990	0.01665	F1	mg/Kg		17	70 - 130
Toluene	<0.00198	U F1 F2	0.0990	0.008089	F1	mg/Kg		8	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-10599-A-4-B MS

Matrix: Solid

Analysis Batch: 17867

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17863

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U F1	0.0990	0.01789	F1	mg/Kg		18	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1 F2	0.198	0.02358	F1	mg/Kg		12	70 - 130
o-Xylene	<0.00198	U F1 F2	0.0990	0.04114	F1	mg/Kg		42	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	70		70 - 130
1,4-Difluorobenzene (Surr)	57	S1-	70 - 130

Lab Sample ID: 880-10599-A-4-C MSD

Matrix: Solid

Analysis Batch: 17867

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17863

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00198	U F1	0.0996	0.01314	F1	mg/Kg		13	70 - 130	24	35
Toluene	<0.00198	U F1 F2	0.0996	0.01615	F1 F2	mg/Kg		16	70 - 130	67	35
Ethylbenzene	<0.00198	U F1	0.0996	0.01992	F1	mg/Kg		20	70 - 130	11	35
m-Xylene & p-Xylene	<0.00397	U F1 F2	0.199	0.04936	F1 F2	mg/Kg		25	70 - 130	71	35
o-Xylene	<0.00198	U F1 F2	0.0996	0.02546	F1 F2	mg/Kg		26	70 - 130	47	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-17947/1-A

Matrix: Solid

Analysis Batch: 17874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17947

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/27/22 15:00	01/27/22 20:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/22 15:00	01/27/22 20:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/22 15:00	01/27/22 20:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130	01/27/22 15:00	01/27/22 20:38	1
o-Terphenyl (Surr)	121		70 - 130	01/27/22 15:00	01/27/22 20:38	1

Lab Sample ID: LCS 880-17947/2-A

Matrix: Solid

Analysis Batch: 17874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1132		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	1000	986.6		mg/Kg		99	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-17947/2-A

Matrix: Solid

Analysis Batch: 17874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17947

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	126		70 - 130
o-Terphenyl (Surr)	121		70 - 130

Lab Sample ID: LCSD 880-17947/3-A

Matrix: Solid

Analysis Batch: 17874

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17947

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1248		mg/Kg		125	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	1147		mg/Kg		115	70 - 130	15	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	144	S1+	70 - 130								
o-Terphenyl (Surr)	137	S1+	70 - 130								

Lab Sample ID: 880-10593-A-21-D MS

Matrix: Solid

Analysis Batch: 17874

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	990.8		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	921.0		mg/Kg		92	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	74		70 - 130								
o-Terphenyl (Surr)	66	S1-	70 - 130								

Lab Sample ID: 880-10593-A-21-E MSD

Matrix: Solid

Analysis Batch: 17874

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1205		mg/Kg		117	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	972.0		mg/Kg		98	70 - 130	5	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	75		70 - 130								
o-Terphenyl (Surr)	67	S1-	70 - 130								

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17959/1-A

Matrix: Solid

Analysis Batch: 18071

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/29/22 22:53	1

Lab Sample ID: LCS 880-17959/2-A

Matrix: Solid

Analysis Batch: 18071

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	272.5		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-17959/3-A

Matrix: Solid

Analysis Batch: 18071

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	272.8		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 890-1869-A-45-C MS

Matrix: Solid

Analysis Batch: 18071

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	261	F1	1250	1683	F1	mg/Kg		114	90 - 110

Lab Sample ID: 890-1869-A-45-D MSD

Matrix: Solid

Analysis Batch: 18071

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	261	F1	1250	1654	F1	mg/Kg		112	90 - 110	2	20

Lab Sample ID: MB 880-18029/1-A

Matrix: Solid

Analysis Batch: 18094

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/01/22 17:20	1

Lab Sample ID: LCS 880-18029/2-A

Matrix: Solid

Analysis Batch: 18094

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	231.6		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-18029/3-A

Matrix: Solid

Analysis Batch: 18094

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	261.3		mg/Kg		105	90 - 110	12	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1870-3 MS

Matrix: Solid

Analysis Batch: 18094

Client Sample ID: C-1212 3.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	76.3	F1	250	327.6		mg/Kg		101	90 - 110

Lab Sample ID: 890-1870-3 MSD

Matrix: Solid

Analysis Batch: 18094

Client Sample ID: C-1212 3.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	76.3	F1	250	293.2	F1	mg/Kg		87	90 - 110	11	20

Lab Sample ID: MB 880-19050/1-A

Matrix: Solid

Analysis Batch: 19051

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/10/22 22:37	1

Lab Sample ID: LCS 880-19050/2-A

Matrix: Solid

Analysis Batch: 19051

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.2		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-19050/3-A

Matrix: Solid

Analysis Batch: 19051

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	259.7		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-11062-A-1-B MS

Matrix: Solid

Analysis Batch: 19051

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8640		2520	11270		mg/Kg		105	90 - 110

Lab Sample ID: 880-11062-A-1-C MSD

Matrix: Solid

Analysis Batch: 19051

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8640		2520	11260		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-19125/1-A

Matrix: Solid

Analysis Batch: 19127

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/11/22 12:24	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-19125/2-A

Matrix: Solid

Analysis Batch: 19127

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	260.2		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-19125/3-A

Matrix: Solid

Analysis Batch: 19127

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	257.6		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-11187-A-1-B MS

Matrix: Solid

Analysis Batch: 19127

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7830		2530	10530		mg/Kg		107	90 - 110

Lab Sample ID: 880-11187-A-1-C MSD

Matrix: Solid

Analysis Batch: 19127

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7830		2530	10550		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

GC VOA

Prep Batch: 17863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1870-1	C-1243 0-1.5'	Total/NA	Solid	5035	
890-1870-2	C-676 4.1'	Total/NA	Solid	5035	
890-1870-3	C-1212 3.5'	Total/NA	Solid	5035	
890-1870-4	C-592 4.1'	Total/NA	Solid	5035	
MB 880-17863/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17863/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17863/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10599-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
880-10599-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1870-1	C-1243 0-1.5'	Total/NA	Solid	8021B	17863
890-1870-2	C-676 4.1'	Total/NA	Solid	8021B	17863
890-1870-3	C-1212 3.5'	Total/NA	Solid	8021B	17863
890-1870-4	C-592 4.1'	Total/NA	Solid	8021B	17863
MB 880-17863/5-A	Method Blank	Total/NA	Solid	8021B	17863
LCS 880-17863/1-A	Lab Control Sample	Total/NA	Solid	8021B	17863
LCSD 880-17863/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17863
880-10599-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	17863
880-10599-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17863

Analysis Batch: 18313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1870-1	C-1243 0-1.5'	Total/NA	Solid	Total BTEX	
890-1870-2	C-676 4.1'	Total/NA	Solid	Total BTEX	
890-1870-3	C-1212 3.5'	Total/NA	Solid	Total BTEX	
890-1870-4	C-592 4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 17874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1870-1	C-1243 0-1.5'	Total/NA	Solid	8015B NM	17947
890-1870-2	C-676 4.1'	Total/NA	Solid	8015B NM	17947
890-1870-3	C-1212 3.5'	Total/NA	Solid	8015B NM	17947
890-1870-4	C-592 4.1'	Total/NA	Solid	8015B NM	17947
MB 880-17947/1-A	Method Blank	Total/NA	Solid	8015B NM	17947
LCS 880-17947/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17947
LCSD 880-17947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17947
880-10593-A-21-D MS	Matrix Spike	Total/NA	Solid	8015B NM	17947
880-10593-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17947

Prep Batch: 17947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1870-1	C-1243 0-1.5'	Total/NA	Solid	8015NM Prep	
890-1870-2	C-676 4.1'	Total/NA	Solid	8015NM Prep	
890-1870-3	C-1212 3.5'	Total/NA	Solid	8015NM Prep	
890-1870-4	C-592 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-17947/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17947/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 17947 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-17947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10593-A-21-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10593-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1870-1	C-1243 0-1.5'	Total/NA	Solid	8015 NM	
890-1870-2	C-676 4.1'	Total/NA	Solid	8015 NM	
890-1870-3	C-1212 3.5'	Total/NA	Solid	8015 NM	
890-1870-4	C-592 4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 17959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1870-2	C-676 4.1'	Soluble	Solid	DI Leach	
MB 880-17959/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17959/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17959/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1869-A-45-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1869-A-45-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 18029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1870-3	C-1212 3.5'	Soluble	Solid	DI Leach	
890-1870-4	C-592 4.1'	Soluble	Solid	DI Leach	
MB 880-18029/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18029/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18029/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1870-3 MS	C-1212 3.5'	Soluble	Solid	DI Leach	
890-1870-3 MSD	C-1212 3.5'	Soluble	Solid	DI Leach	

Analysis Batch: 18071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1870-2	C-676 4.1'	Soluble	Solid	300.0	17959
MB 880-17959/1-A	Method Blank	Soluble	Solid	300.0	17959
LCS 880-17959/2-A	Lab Control Sample	Soluble	Solid	300.0	17959
LCSD 880-17959/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17959
890-1869-A-45-C MS	Matrix Spike	Soluble	Solid	300.0	17959
890-1869-A-45-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17959

Analysis Batch: 18094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1870-3	C-1212 3.5'	Soluble	Solid	300.0	18029
890-1870-4	C-592 4.1'	Soluble	Solid	300.0	18029
MB 880-18029/1-A	Method Blank	Soluble	Solid	300.0	18029
LCS 880-18029/2-A	Lab Control Sample	Soluble	Solid	300.0	18029
LCSD 880-18029/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18029
890-1870-3 MS	C-1212 3.5'	Soluble	Solid	300.0	18029
890-1870-3 MSD	C-1212 3.5'	Soluble	Solid	300.0	18029

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 19050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19050/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19050/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19050/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11062-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-11062-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 19051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19050/1-A	Method Blank	Soluble	Solid	300.0	19050
LCS 880-19050/2-A	Lab Control Sample	Soluble	Solid	300.0	19050
LCSD 880-19050/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19050
880-11062-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	19050
880-11062-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	19050

Leach Batch: 19125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1870-1	C-1243 0-1.5'	Soluble	Solid	DI Leach	
MB 880-19125/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19125/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19125/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11187-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-11187-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 19127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1870-1	C-1243 0-1.5'	Soluble	Solid	300.0	19125
MB 880-19125/1-A	Method Blank	Soluble	Solid	300.0	19125
LCS 880-19125/2-A	Lab Control Sample	Soluble	Solid	300.0	19125
LCSD 880-19125/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19125
880-11187-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	19125
880-11187-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	19125

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Client Sample ID: C-1243 0-1.5'

Date Collected: 01/25/22 10:00

Date Received: 01/25/22 15:29

Lab Sample ID: 890-1870-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17863	01/27/22 08:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17867	01/27/22 17:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18313	02/01/22 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17947	01/27/22 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17874	01/27/22 23:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19125	02/11/22 10:30	SC	XEN MID
Soluble	Analysis	300.0		1			19127	02/11/22 13:20	SC	XEN MID

Client Sample ID: C-676 4.1'

Date Collected: 01/25/22 12:25

Date Received: 01/25/22 15:29

Lab Sample ID: 890-1870-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17863	01/27/22 08:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17867	01/27/22 18:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18313	02/01/22 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17947	01/27/22 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17874	01/27/22 23:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	17959	01/27/22 18:41	CH	XEN MID
Soluble	Analysis	300.0		1			18071	01/30/22 02:40	CH	XEN MID

Client Sample ID: C-1212 3.5'

Date Collected: 01/25/22 13:13

Date Received: 01/25/22 15:29

Lab Sample ID: 890-1870-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17863	01/27/22 08:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17867	01/27/22 18:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18313	02/01/22 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17947	01/27/22 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17874	01/27/22 23:56	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/01/22 17:38	CH	XEN MID

Client Sample ID: C-592 4.1'

Date Collected: 01/25/22 14:25

Date Received: 01/25/22 15:29

Lab Sample ID: 890-1870-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17863	01/27/22 08:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17867	01/27/22 18:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18313	02/01/22 16:53	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Client Sample ID: C-592 4.1'
Date Collected: 01/25/22 14:25
Date Received: 01/25/22 15:29

Lab Sample ID: 890-1870-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17947	01/27/22 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17874	01/28/22 00:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 17:57	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1870-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1870-1	C-1243 0-1.5'	Solid	01/25/22 10:00	01/25/22 15:29	0 - 1.5
890-1870-2	C-676 4.1'	Solid	01/25/22 12:25	01/25/22 15:29	4.1
890-1870-3	C-1212 3.5'	Solid	01/25/22 13:13	01/25/22 15:29	3.5
890-1870-4	C-592 4.1'	Solid	01/25/22 14:25	01/25/22 15:29	4.1

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- 14

Varson & Associates, Inc.

Environmental Consultants

507 N. Marientfield, Ste. 202
Midland, TX 79701
432-687-0901

Date Reported to

DATE: 1/25/2022 PAGE 1 OF 1
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmdale AST
LAI PROJECT #: 21-0105-02 COLLECTOR: DSG

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State

MST/NTM

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX ☒ MTBE ☒

TPH 418 ☒ TPH 1005 ☒ TPH 1006 ☒

GASOLINE MOD 8015 ☒

DIESEL - MOD 8015 ☒

OIL - MOD 8015 ☒

VOC 8260 ☒

SVOC 8270 ☒

8081 PESTICIDES ☒

8082 PCBs ☒

TCLP - METALS (RCRA) ☒

TCLP - PEST ☒

TCLP - METALS (RCRA) ☒

LEAD - TOTAL (RCRA) ☒

RCI ☒

TDS ☒

FLASHPOINT ☒

% MOISTURE ☒

CYANIDE ☒

PECHLORATE ☒

ANIONS ☒

ALKALINITY ☒

EXPLOSIVES ☒

CHLORIDE ☒

FIELD NOTES

890-1870 Chain of Custody

TOTAL 4

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

1 DAY ☒

RECEIVING TEMP 58/56 THERM# 12111111

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

2 DAY ☒

CUSTODY SEALS - ☒ BROKEN ☒ INTACT ☒ NOT USED

LABORATORY

XENCO

CARRIER BILL #

UNHAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1870-1

SDG Number: 21-0105-02

Login Number: 1870**List Number: 1****Creator: Olivas, Nathaniel****List Source: Eurofins Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1870-1

SDG Number: 21-0105-02

Login Number: 1870**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 01/27/22 11:48 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1882-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio Ast

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
2/3/2022 10:42:31 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Laboratory Job ID: 890-1882-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Job ID: 890-1882-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-1882-1

Receipt

The samples were received on 1/27/2022 3:51 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 11.6°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-561 (890-1882-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-576 (890-1882-1), (890-1883-A-1-C MS) and (890-1883-A-1-D MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Client Sample ID: C-576

Lab Sample ID: 890-1882-1

Date Collected: 01/27/22 09:24

Matrix: Solid

Date Received: 01/27/22 15:51

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 16:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 16:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 16:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/31/22 07:24	01/31/22 16:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 16:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/31/22 07:24	01/31/22 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	01/31/22 07:24	01/31/22 16:52	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/31/22 07:24	01/31/22 16:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/02/22 16:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/31/22 13:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 16:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 16:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	68	S1-	70 - 130	01/31/22 11:10	02/01/22 16:19	1
o-Terphenyl (Surr)	78		70 - 130	01/31/22 11:10	02/01/22 16:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.2		5.01	mg/Kg			02/01/22 09:21	1

Client Sample ID: C-561

Lab Sample ID: 890-1882-2

Date Collected: 01/27/22 09:41

Matrix: Solid

Date Received: 01/27/22 15:51

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 17:13	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 17:13	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 17:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/31/22 07:24	01/31/22 17:13	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 17:13	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/31/22 07:24	01/31/22 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	01/31/22 07:24	01/31/22 17:13	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Client Sample ID: C-561

Lab Sample ID: 890-1882-2

Date Collected: 01/27/22 09:41

Matrix: Solid

Date Received: 01/27/22 15:51

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130	01/31/22 07:24	01/31/22 17:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/02/22 16:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/02/22 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 16:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 16:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130			01/31/22 11:10	02/01/22 16:40	1
o-Terphenyl (Surr)	83		70 - 130			01/31/22 11:10	02/01/22 16:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		4.98	mg/Kg			02/01/22 09:29	1

Client Sample ID: C-580

Lab Sample ID: 890-1882-3

Date Collected: 01/27/22 10:02

Matrix: Solid

Date Received: 01/27/22 15:51

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 17:33	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 17:33	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 17:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/31/22 07:24	01/31/22 17:33	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 17:33	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/31/22 07:24	01/31/22 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/31/22 07:24	01/31/22 17:33	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/31/22 07:24	01/31/22 17:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/02/22 16:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/02/22 16:07	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Client Sample ID: C-580

Lab Sample ID: 890-1882-3

Date Collected: 01/27/22 10:02

Matrix: Solid

Date Received: 01/27/22 15:51

Sample Depth: 2.5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 17:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 17:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			01/31/22 11:10	02/01/22 17:02	1
o-Terphenyl (Surr)	92		70 - 130			01/31/22 11:10	02/01/22 17:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		5.00	mg/Kg			02/01/22 09:36	1

Client Sample ID: C-586

Lab Sample ID: 890-1882-4

Date Collected: 01/27/22 10:22

Matrix: Solid

Date Received: 01/27/22 15:51

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 17:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 17:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 17:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/31/22 07:24	01/31/22 17:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 17:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/31/22 07:24	01/31/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			01/31/22 07:24	01/31/22 17:54	1
1,4-Difluorobenzene (Surr)	84		70 - 130			01/31/22 07:24	01/31/22 17:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/02/22 16:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/02/22 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 17:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 17:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 17:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	70		70 - 130			01/31/22 11:10	02/01/22 17:23	1
o-Terphenyl (Surr)	80		70 - 130			01/31/22 11:10	02/01/22 17:23	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Client Sample ID: C-586

Lab Sample ID: 890-1882-4

Date Collected: 01/27/22 10:22

Matrix: Solid

Date Received: 01/27/22 15:51

Sample Depth: 2.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.2		4.99	mg/Kg			02/02/22 17:25	1

Client Sample ID: C-578

Lab Sample ID: 890-1882-5

Date Collected: 01/27/22 10:39

Matrix: Solid

Date Received: 01/27/22 15:51

Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/31/22 07:24	01/31/22 18:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/31/22 07:24	01/31/22 18:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/31/22 07:24	01/31/22 18:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/31/22 07:24	01/31/22 18:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/31/22 07:24	01/31/22 18:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/31/22 07:24	01/31/22 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			01/31/22 07:24	01/31/22 18:14	1
1,4-Difluorobenzene (Surr)	94		70 - 130			01/31/22 07:24	01/31/22 18:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/02/22 16:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/02/22 16:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 17:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 17:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130			01/31/22 11:10	02/01/22 17:45	1
o-Terphenyl (Surr)	82		70 - 130			01/31/22 11:10	02/01/22 17:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	333		4.96	mg/Kg			02/02/22 17:32	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-10720-A-1-E MS	Matrix Spike	102	103
880-10720-A-1-F MSD	Matrix Spike Duplicate	96	97
890-1882-1	C-576	119	104
890-1882-2	C-561	145 S1+	131 S1+
890-1882-3	C-580	109	103
890-1882-4	C-586	116	84
890-1882-5	C-578	113	94
LCS 880-18098/1-A	Lab Control Sample	102	101
LCSD 880-18098/2-A	Lab Control Sample Dup	98	99
MB 880-18098/5-A	Method Blank	98	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1882-1	C-576	68 S1-	78
890-1882-2	C-561	73	83
890-1882-3	C-580	83	92
890-1882-4	C-586	70	80
890-1882-5	C-578	71	82
890-1883-A-1-C MS	Matrix Spike	69 S1-	69 S1-
890-1883-A-1-D MSD	Matrix Spike Duplicate	69 S1-	70
LCS 880-18143/2-A	Lab Control Sample	90	96
LCSD 880-18143/3-A	Lab Control Sample Dup	89	93
MB 880-18143/1-A	Method Blank	82	97
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18098/5-A

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18098

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/31/22 07:24	01/31/22 10:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/31/22 07:24	01/31/22 10:43	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/31/22 07:24	01/31/22 10:43	1

Lab Sample ID: LCS 880-18098/1-A

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07904		mg/Kg		79	70 - 130
Toluene	0.100	0.07722		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.07702		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1584		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07663		mg/Kg		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-18098/2-A

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08134		mg/Kg		81	70 - 130	3	35
Toluene	0.100	0.07230		mg/Kg		72	70 - 130	7	35
Ethylbenzene	0.100	0.07478		mg/Kg		75	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1517		mg/Kg		76	70 - 130	4	35
o-Xylene	0.100	0.07439		mg/Kg		74	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-10720-A-1-E MS

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.100	0.08526		mg/Kg		85	70 - 130
Toluene	<0.00200	U	0.100	0.08078		mg/Kg		81	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-10720-A-1-E MS

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.100	0.08135		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1659		mg/Kg		83	70 - 130
o-Xylene	<0.00200	U	0.100	0.08128		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-10720-A-1-F MSD

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08653		mg/Kg		87	70 - 130	1	35
Toluene	<0.00200	U	0.0996	0.08058		mg/Kg		81	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0996	0.07884		mg/Kg		79	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1589		mg/Kg		80	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.07941		mg/Kg		80	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-18143/1-A

Matrix: Solid

Analysis Batch: 18225

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18143

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 09:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 09:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 09:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	01/31/22 11:10	02/01/22 09:23	1
o-Terphenyl (Surr)	97		70 - 130	01/31/22 11:10	02/01/22 09:23	1

Lab Sample ID: LCS 880-18143/2-A

Matrix: Solid

Analysis Batch: 18225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	846.8		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1190		mg/Kg		119	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-18143/2-A
Matrix: Solid
Analysis Batch: 18225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18143

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-18143/3-A
Matrix: Solid
Analysis Batch: 18225

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 18143

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	926.5		mg/Kg		93	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1204		mg/Kg		120	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	89		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Lab Sample ID: 890-1883-A-1-C MS
Matrix: Solid
Analysis Batch: 18225

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 18143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	851.8		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	970.6		mg/Kg		95	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	69	S1-	70 - 130
o-Terphenyl (Surr)	69	S1-	70 - 130

Lab Sample ID: 890-1883-A-1-D MSD
Matrix: Solid
Analysis Batch: 18225

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 18143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	967.9		mg/Kg		95	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	999.6		mg/Kg		98	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	69	S1-	70 - 130
o-Terphenyl (Surr)	70		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18032/1-A

Matrix: Solid

Analysis Batch: 18253

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/31/22 23:16	1

Lab Sample ID: LCS 880-18032/2-A

Matrix: Solid

Analysis Batch: 18253

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	265.3		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-18032/3-A

Matrix: Solid

Analysis Batch: 18253

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	266.5		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-1879-A-14-C MS

Matrix: Solid

Analysis Batch: 18253

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	578		248	829.4		mg/Kg		102	90 - 110

Lab Sample ID: 890-1879-A-14-D MSD

Matrix: Solid

Analysis Batch: 18253

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	578		248	821.7		mg/Kg		98	90 - 110	1	20

Lab Sample ID: MB 880-18033/1-A

Matrix: Solid

Analysis Batch: 18286

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/02/22 13:22	1

Lab Sample ID: LCS 880-18033/2-A

Matrix: Solid

Analysis Batch: 18286

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	272.7		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-18033/3-A

Matrix: Solid

Analysis Batch: 18286

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	272.6		mg/Kg		109	90 - 110	0	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-10680-A-6-B MS								Client Sample ID: Matrix Spike			
Matrix: Solid								Prep Type: Soluble			
Analysis Batch: 18286											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	52.1		250	321.9		mg/Kg		108	90 - 110		

Lab Sample ID: 880-10680-A-6-C MSD								Client Sample ID: Matrix Spike Duplicate			
Matrix: Solid								Prep Type: Soluble			
Analysis Batch: 18286											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	52.1		250	320.5		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

GC VOA

Prep Batch: 18098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1882-1	C-576	Total/NA	Solid	5035	
890-1882-2	C-561	Total/NA	Solid	5035	
890-1882-3	C-580	Total/NA	Solid	5035	
890-1882-4	C-586	Total/NA	Solid	5035	
890-1882-5	C-578	Total/NA	Solid	5035	
MB 880-18098/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18098/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18098/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10720-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-10720-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 18100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1882-1	C-576	Total/NA	Solid	8021B	18098
890-1882-2	C-561	Total/NA	Solid	8021B	18098
890-1882-3	C-580	Total/NA	Solid	8021B	18098
890-1882-4	C-586	Total/NA	Solid	8021B	18098
890-1882-5	C-578	Total/NA	Solid	8021B	18098
MB 880-18098/5-A	Method Blank	Total/NA	Solid	8021B	18098
LCS 880-18098/1-A	Lab Control Sample	Total/NA	Solid	8021B	18098
LCSD 880-18098/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18098
880-10720-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	18098
880-10720-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18098

Analysis Batch: 18419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1882-1	C-576	Total/NA	Solid	Total BTEX	
890-1882-2	C-561	Total/NA	Solid	Total BTEX	
890-1882-3	C-580	Total/NA	Solid	Total BTEX	
890-1882-4	C-586	Total/NA	Solid	Total BTEX	
890-1882-5	C-578	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 18143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1882-1	C-576	Total/NA	Solid	8015NM Prep	
890-1882-2	C-561	Total/NA	Solid	8015NM Prep	
890-1882-3	C-580	Total/NA	Solid	8015NM Prep	
890-1882-4	C-586	Total/NA	Solid	8015NM Prep	
890-1882-5	C-578	Total/NA	Solid	8015NM Prep	
MB 880-18143/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18143/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1883-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1883-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1882-1	C-576	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 18225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1882-1	C-576	Total/NA	Solid	8015B NM	18143
890-1882-2	C-561	Total/NA	Solid	8015B NM	18143
890-1882-3	C-580	Total/NA	Solid	8015B NM	18143
890-1882-4	C-586	Total/NA	Solid	8015B NM	18143
890-1882-5	C-578	Total/NA	Solid	8015B NM	18143
MB 880-18143/1-A	Method Blank	Total/NA	Solid	8015B NM	18143
LCS 880-18143/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18143
LCSD 880-18143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18143
890-1883-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	18143
890-1883-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18143

Analysis Batch: 18413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1882-2	C-561	Total/NA	Solid	8015 NM	
890-1882-3	C-580	Total/NA	Solid	8015 NM	
890-1882-4	C-586	Total/NA	Solid	8015 NM	
890-1882-5	C-578	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 18032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1882-1	C-576	Soluble	Solid	DI Leach	
890-1882-2	C-561	Soluble	Solid	DI Leach	
890-1882-3	C-580	Soluble	Solid	DI Leach	
MB 880-18032/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18032/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18032/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1879-A-14-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1879-A-14-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 18033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1882-4	C-586	Soluble	Solid	DI Leach	
890-1882-5	C-578	Soluble	Solid	DI Leach	
MB 880-18033/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18033/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18033/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10680-A-6-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-10680-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 18253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1882-1	C-576	Soluble	Solid	300.0	18032
890-1882-2	C-561	Soluble	Solid	300.0	18032
890-1882-3	C-580	Soluble	Solid	300.0	18032
MB 880-18032/1-A	Method Blank	Soluble	Solid	300.0	18032
LCS 880-18032/2-A	Lab Control Sample	Soluble	Solid	300.0	18032
LCSD 880-18032/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18032
890-1879-A-14-C MS	Matrix Spike	Soluble	Solid	300.0	18032
890-1879-A-14-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18032

Eurofins Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

HPLC/IC

Analysis Batch: 18286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1882-4	C-586	Soluble	Solid	300.0	18033
890-1882-5	C-578	Soluble	Solid	300.0	18033
MB 880-18033/1-A	Method Blank	Soluble	Solid	300.0	18033
LCS 880-18033/2-A	Lab Control Sample	Soluble	Solid	300.0	18033
LCSD 880-18033/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18033
880-10680-A-6-B MS	Matrix Spike	Soluble	Solid	300.0	18033
880-10680-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18033

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Client Sample ID: C-576

Lab Sample ID: 890-1882-1

Date Collected: 01/27/22 09:24

Matrix: Solid

Date Received: 01/27/22 15:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18100	01/31/22 16:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 16:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	18032	01/28/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		1			18253	02/01/22 09:21	CH	XEN MID

Client Sample ID: C-561

Lab Sample ID: 890-1882-2

Date Collected: 01/27/22 09:41

Matrix: Solid

Date Received: 01/27/22 15:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18100	01/31/22 17:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18413	02/02/22 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 16:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18032	01/28/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		1			18253	02/01/22 09:29	CH	XEN MID

Client Sample ID: C-580

Lab Sample ID: 890-1882-3

Date Collected: 01/27/22 10:02

Matrix: Solid

Date Received: 01/27/22 15:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18100	01/31/22 17:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18413	02/02/22 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 17:02	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18032	01/28/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		1			18253	02/01/22 09:36	CH	XEN MID

Client Sample ID: C-586

Lab Sample ID: 890-1882-4

Date Collected: 01/27/22 10:22

Matrix: Solid

Date Received: 01/27/22 15:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18100	01/31/22 17:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Client Sample ID: C-586

Lab Sample ID: 890-1882-4

Date Collected: 01/27/22 10:22

Matrix: Solid

Date Received: 01/27/22 15:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			18413	02/02/22 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18033	01/28/22 10:57	CH	XEN MID
Soluble	Analysis	300.0		1			18286	02/02/22 17:25	CH	XEN MID

Client Sample ID: C-578

Lab Sample ID: 890-1882-5

Date Collected: 01/27/22 10:39

Matrix: Solid

Date Received: 01/27/22 15:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18100	01/31/22 18:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18413	02/02/22 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 17:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	18033	01/28/22 10:57	CH	XEN MID
Soluble	Analysis	300.0		1			18286	02/02/22 17:32	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Ast

Job ID: 890-1882-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1882-1	C-576	Solid	01/27/22 09:24	01/27/22 15:51	3.5
890-1882-2	C-561	Solid	01/27/22 09:41	01/27/22 15:51	2.5
890-1882-3	C-580	Solid	01/27/22 10:02	01/27/22 15:51	2.5
890-1882-4	C-586	Solid	01/27/22 10:22	01/27/22 15:51	2.5
890-1882-5	C-578	Solid	01/27/22 10:39	01/27/22 15:51	2.5

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1882-1

SDG Number: 21-0105-02

Login Number: 1882

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1882-1

SDG Number: 21-0105-02

Login Number: 1882

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 01/31/22 08:21 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-11327-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
2/22/2022 3:48:26 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 880-11327-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

Job ID: 880-11327-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-11327-1

Receipt

The sample was received on 2/16/2022 8:53 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19726 and analytical batch 880-19783 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-1008 4.1' (880-11327-1), (MB 880-19554/1-A), (880-11287-A-35-E), (880-11287-A-35-F MS) and (880-11287-A-35-G MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

Client Sample ID: C-1008 4.1'

Lab Sample ID: 880-11327-1

Date Collected: 02/15/22 11:30

Matrix: Solid

Date Received: 02/16/22 08:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/18/22 14:00	02/20/22 04:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/18/22 14:00	02/20/22 04:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/18/22 14:00	02/20/22 04:54	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/18/22 14:00	02/20/22 04:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/18/22 14:00	02/20/22 04:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/18/22 14:00	02/20/22 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	02/18/22 14:00	02/20/22 04:54	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/18/22 14:00	02/20/22 04:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/21/22 19:46	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/17/22 13:52	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/16/22 14:00	02/16/22 20:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/16/22 14:00	02/16/22 20:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/16/22 14:00	02/16/22 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130	02/16/22 14:00	02/16/22 20:07	1
o-Terphenyl (Surr)	79		70 - 130	02/16/22 14:00	02/16/22 20:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410		4.99	mg/Kg			02/20/22 22:02	1

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-11327-1	C-1008 4.1'	120	96
890-1937-A-1-E MS	Matrix Spike	139 S1+	85
890-1937-A-1-F MSD	Matrix Spike Duplicate	129	105
LCS 880-19726/1-A	Lab Control Sample	106	94
LCSD 880-19726/2-A	Lab Control Sample Dup	113	94
MB 880-19710/5-A	Method Blank	136 S1+	106
MB 880-19726/5-A	Method Blank	120	99
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-11287-A-35-F MS	Matrix Spike	64 S1-	57 S1-
880-11287-A-35-G MSD	Matrix Spike Duplicate	66 S1-	59 S1-
880-11327-1	C-1008 4.1'	69 S1-	79
LCS 880-19554/2-A	Lab Control Sample	107	111
LCSD 880-19554/3-A	Lab Control Sample Dup	101	103
MB 880-19554/1-A	Method Blank	59 S1-	68 S1-
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-19710/5-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19710

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 08:30	02/19/22 11:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 08:30	02/19/22 11:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 08:30	02/19/22 11:55	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/18/22 08:30	02/19/22 11:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 08:30	02/19/22 11:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/18/22 08:30	02/19/22 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	02/18/22 08:30	02/19/22 11:55	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/18/22 08:30	02/19/22 11:55	1

Lab Sample ID: MB 880-19726/5-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19726

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 14:00	02/19/22 23:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 14:00	02/19/22 23:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 14:00	02/19/22 23:32	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/18/22 14:00	02/19/22 23:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 14:00	02/19/22 23:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/18/22 14:00	02/19/22 23:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	02/18/22 14:00	02/19/22 23:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/18/22 14:00	02/19/22 23:32	1

Lab Sample ID: LCS 880-19726/1-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08006		mg/Kg		80	70 - 130
Toluene	0.100	0.09114		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09514		mg/Kg		95	70 - 130
m,p-Xylenes	0.200	0.1787		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08747		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-19726/2-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19726

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08249		mg/Kg		82	70 - 130	3	35

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-19726/2-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19726

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08890		mg/Kg		89	70 - 130	2	35
Ethylbenzene	0.100	0.08914		mg/Kg		89	70 - 130	7	35
m,p-Xylenes	0.200	0.1773		mg/Kg		89	70 - 130	1	35
o-Xylene	0.100	0.09142		mg/Kg		91	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-1937-A-1-E MS

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19726

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1 F2	0.100	0.05182	F1	mg/Kg		52	70 - 130
Toluene	<0.00202	U F1	0.100	0.05670	F1	mg/Kg		56	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.09014		mg/Kg		90	70 - 130
m,p-Xylenes	<0.00404	U F1	0.201	0.1275	F1	mg/Kg		63	70 - 130
o-Xylene	<0.00202	U F1	0.100	0.06332	F1	mg/Kg		63	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-1937-A-1-F MSD

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19726

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1 F2	0.0998	0.07961	F2	mg/Kg		80	70 - 130	42	35
Toluene	<0.00202	U F1	0.0998	0.07714		mg/Kg		77	70 - 130	31	35
Ethylbenzene	<0.00202	U	0.0998	0.09264		mg/Kg		93	70 - 130	3	35
m,p-Xylenes	<0.00404	U F1	0.200	0.1586		mg/Kg		79	70 - 130	22	35
o-Xylene	<0.00202	U F1	0.0998	0.08155		mg/Kg		82	70 - 130	25	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-19554/1-A

Matrix: Solid

Analysis Batch: 19566

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19554

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/16/22 08:36	02/16/22 11:26	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-19554/1-A

Matrix: Solid

Analysis Batch: 19566

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19554

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/16/22 08:36	02/16/22 11:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/16/22 08:36	02/16/22 11:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	59	S1-	70 - 130			02/16/22 08:36	02/16/22 11:26	1
o-Terphenyl (Surr)	68	S1-	70 - 130			02/16/22 08:36	02/16/22 11:26	1

Lab Sample ID: LCS 880-19554/2-A

Matrix: Solid

Analysis Batch: 19566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19554

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	844.6		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	909.4		mg/Kg		91	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	107		70 - 130				
o-Terphenyl (Surr)	111		70 - 130				

Lab Sample ID: LCSD 880-19554/3-A

Matrix: Solid

Analysis Batch: 19566

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19554

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	792.3		mg/Kg		79	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	839.6		mg/Kg		84	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	101		70 - 130						
o-Terphenyl (Surr)	103		70 - 130						

Lab Sample ID: 880-11287-A-35-F MS

Matrix: Solid

Analysis Batch: 19566

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19554

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	922.5		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	945.4		mg/Kg		90	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	64	S1-	70 - 130						
o-Terphenyl (Surr)	57	S1-	70 - 130						

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-11287-A-35-G MSD

Matrix: Solid

Analysis Batch: 19566

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19554

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	948.8		mg/Kg		95	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	983.0		mg/Kg		94	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	66	S1-	70 - 130								
o-Terphenyl (Surr)	59	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19800/1-A

Matrix: Solid

Analysis Batch: 19883

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/20/22 21:11	1

Lab Sample ID: LCS 880-19800/2-A

Matrix: Solid

Analysis Batch: 19883

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	269.4		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-19800/3-A

Matrix: Solid

Analysis Batch: 19883

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	268.6		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-1965-A-5-G MS

Matrix: Solid

Analysis Batch: 19883

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	139		250	382.3		mg/Kg		97	90 - 110

Lab Sample ID: 890-1965-A-5-H MSD

Matrix: Solid

Analysis Batch: 19883

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	139		250	373.6		mg/Kg		94	90 - 110	2	20

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

GC VOA

Prep Batch: 19710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19710/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 19726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11327-1	C-1008 4.1'	Total/NA	Solid	5035	
MB 880-19726/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19726/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19726/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1937-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-1937-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 19783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11327-1	C-1008 4.1'	Total/NA	Solid	8021B	19726
MB 880-19710/5-A	Method Blank	Total/NA	Solid	8021B	19710
MB 880-19726/5-A	Method Blank	Total/NA	Solid	8021B	19726
LCS 880-19726/1-A	Lab Control Sample	Total/NA	Solid	8021B	19726
LCSD 880-19726/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19726
890-1937-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	19726
890-1937-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	19726

Analysis Batch: 20010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11327-1	C-1008 4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 19554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11327-1	C-1008 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-19554/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19554/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19554/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11287-A-35-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-11287-A-35-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 19566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11327-1	C-1008 4.1'	Total/NA	Solid	8015B NM	19554
MB 880-19554/1-A	Method Blank	Total/NA	Solid	8015B NM	19554
LCS 880-19554/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19554
LCSD 880-19554/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19554
880-11287-A-35-F MS	Matrix Spike	Total/NA	Solid	8015B NM	19554
880-11287-A-35-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	19554

Analysis Batch: 19720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11327-1	C-1008 4.1'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 19800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11327-1	C-1008 4.1'	Soluble	Solid	DI Leach	
MB 880-19800/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19800/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19800/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1965-A-5-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1965-A-5-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 19883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11327-1	C-1008 4.1'	Soluble	Solid	300.0	19800
MB 880-19800/1-A	Method Blank	Soluble	Solid	300.0	19800
LCS 880-19800/2-A	Lab Control Sample	Soluble	Solid	300.0	19800
LCSD 880-19800/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19800
890-1965-A-5-G MS	Matrix Spike	Soluble	Solid	300.0	19800
890-1965-A-5-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	19800

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

Client Sample ID: C-1008 4.1'
Date Collected: 02/15/22 11:30
Date Received: 02/16/22 08:53

Lab Sample ID: 880-11327-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	19726	02/18/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19783	02/20/22 04:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20010	02/21/22 19:46	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19720	02/17/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19554	02/16/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19566	02/16/22 20:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19800	02/18/22 10:11	CH	XEN MID
Soluble	Analysis	300.0		1			19883	02/20/22 22:02	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 880-11327-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-11327-1	C-1008 4.1'	Solid	02/15/22 11:30	02/16/22 08:53

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

No. 2272

2/22/2022

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-11327-1

SDG Number: 21-0105-02

Login Number: 11327

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Backfill Composite Samples



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-6476-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio Backfill

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/4/2021 4:13:12 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Laboratory Job ID: 880-6476-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Job ID: 880-6476-1

Laboratory: Eurofins Xenco, Midland

Narrative

**Job Narrative
880-6476-1**

Receipt

The samples were received on 9/24/2021 4:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8508 and analytical batch 880-8644 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-6 (880-6476-6), C-8 (880-6476-8), C-9 (880-6476-9) and C-10 (880-6476-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-8508 and analytical batch 880-8644 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8511 and analytical batch 880-8567 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-1

Lab Sample ID: 880-6476-1

Date Collected: 09/24/21 08:40

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F2 F1	0.00198	mg/Kg		09/28/21 10:15	09/30/21 17:16	1
Toluene	<0.00198	U F2 F1	0.00198	mg/Kg		09/28/21 10:15	09/30/21 17:16	1
Ethylbenzene	<0.00198	U F2 F1	0.00198	mg/Kg		09/28/21 10:15	09/30/21 17:16	1
m,p-Xylenes	<0.00396	U F2 F1	0.00396	mg/Kg		09/28/21 10:15	09/30/21 17:16	1
o-Xylene	<0.00198	U F2 F1	0.00198	mg/Kg		09/28/21 10:15	09/30/21 17:16	1
Xylenes, Total	<0.00396	U F2 F1	0.00396	mg/Kg		09/28/21 10:15	09/30/21 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/28/21 10:15	09/30/21 17:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/28/21 10:15	09/30/21 17:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 15:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 15:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130	09/27/21 08:53	09/27/21 15:45	1
o-Terphenyl (Surr)	133	S1+	70 - 130	09/27/21 08:53	09/27/21 15:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.7		4.99	mg/Kg			10/01/21 18:09	1

Client Sample ID: C-2

Lab Sample ID: 880-6476-2

Date Collected: 09/24/21 08:41

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/28/21 10:15	09/30/21 17:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 10:15	09/30/21 17:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 10:15	09/30/21 17:43	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 10:15	09/30/21 17:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 10:15	09/30/21 17:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 10:15	09/30/21 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/28/21 10:15	09/30/21 17:43	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/28/21 10:15	09/30/21 17:43	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-2

Lab Sample ID: 880-6476-2

Date Collected: 09/24/21 08:41

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 16:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 16:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 16:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			09/27/21 08:53	09/27/21 16:28	1
o-Terphenyl (Surr)	130		70 - 130			09/27/21 08:53	09/27/21 16:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		5.04	mg/Kg			10/01/21 18:16	1

Client Sample ID: C-3

Lab Sample ID: 880-6476-3

Date Collected: 09/24/21 08:42

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 18:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 18:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 18:10	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 10:15	09/30/21 18:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 18:10	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 10:15	09/30/21 18:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			09/28/21 10:15	09/30/21 18:10	1
1,4-Difluorobenzene (Surr)	105		70 - 130			09/28/21 10:15	09/30/21 18:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 16:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 16:50	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-3

Lab Sample ID: 880-6476-3

Date Collected: 09/24/21 08:42

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 16:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			09/27/21 08:53	09/27/21 16:50	1
o-Terphenyl (Surr)	119		70 - 130			09/27/21 08:53	09/27/21 16:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.44		4.97	mg/Kg			10/01/21 18:22	1

Client Sample ID: C-4

Lab Sample ID: 880-6476-4

Date Collected: 09/24/21 08:43

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 10:15	09/30/21 18:36	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 10:15	09/30/21 18:36	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 10:15	09/30/21 18:36	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/28/21 10:15	09/30/21 18:36	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 10:15	09/30/21 18:36	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/28/21 10:15	09/30/21 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			09/28/21 10:15	09/30/21 18:36	1
1,4-Difluorobenzene (Surr)	105		70 - 130			09/28/21 10:15	09/30/21 18:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 17:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 17:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:53	09/27/21 17:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			09/27/21 08:53	09/27/21 17:12	1
o-Terphenyl (Surr)	113		70 - 130			09/27/21 08:53	09/27/21 17:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.8		4.95	mg/Kg			10/01/21 18:29	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-5

Lab Sample ID: 880-6476-5

Date Collected: 09/24/21 08:44

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/29/21 14:00	09/30/21 18:38	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/29/21 14:00	09/30/21 18:38	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/29/21 14:00	09/30/21 18:38	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/29/21 14:00	09/30/21 18:38	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/29/21 14:00	09/30/21 18:38	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/29/21 14:00	09/30/21 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	09/29/21 14:00	09/30/21 18:38	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/29/21 14:00	09/30/21 18:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 17:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 17:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	09/27/21 08:53	09/27/21 17:34	1
o-Terphenyl (Surr)	97		70 - 130	09/27/21 08:53	09/27/21 17:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.8		4.95	mg/Kg			10/01/21 18:35	1

Client Sample ID: C-6

Lab Sample ID: 880-6476-6

Date Collected: 09/24/21 08:45

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 23:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 23:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 23:02	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 10:15	09/30/21 23:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 23:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 10:15	09/30/21 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	09/28/21 10:15	09/30/21 23:02	1
1,4-Difluorobenzene (Surr)	116		70 - 130	09/28/21 10:15	09/30/21 23:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-6

Lab Sample ID: 880-6476-6

Date Collected: 09/24/21 08:45

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 17:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 17:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			09/27/21 08:53	09/27/21 17:55	1
o-Terphenyl (Surr)	109		70 - 130			09/27/21 08:53	09/27/21 17:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.5		5.05	mg/Kg			10/01/21 18:54	1

Client Sample ID: C-7

Lab Sample ID: 880-6476-7

Date Collected: 09/24/21 08:46

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 18:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 18:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 18:59	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/29/21 14:00	09/30/21 18:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 18:59	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/29/21 14:00	09/30/21 18:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			09/29/21 14:00	09/30/21 18:59	1
1,4-Difluorobenzene (Surr)	74		70 - 130			09/29/21 14:00	09/30/21 18:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 18:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 18:17	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-7

Lab Sample ID: 880-6476-7

Date Collected: 09/24/21 08:46

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 18:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			09/27/21 08:53	09/27/21 18:17	1
o-Terphenyl (Surr)	91		70 - 130			09/27/21 08:53	09/27/21 18:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.4		4.97	mg/Kg			10/01/21 19:01	1

Client Sample ID: C-8

Lab Sample ID: 880-6476-8

Date Collected: 09/24/21 08:47

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00534		0.00201	mg/Kg		09/28/21 10:15	09/30/21 23:29	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/28/21 10:15	09/30/21 23:29	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/28/21 10:15	09/30/21 23:29	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/28/21 10:15	09/30/21 23:29	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/28/21 10:15	09/30/21 23:29	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/28/21 10:15	09/30/21 23:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130			09/28/21 10:15	09/30/21 23:29	1
1,4-Difluorobenzene (Surr)	80		70 - 130			09/28/21 10:15	09/30/21 23:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00534		0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 18:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 18:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 18:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			09/27/21 08:53	09/27/21 18:38	1
o-Terphenyl (Surr)	86		70 - 130			09/27/21 08:53	09/27/21 18:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.2		4.99	mg/Kg			10/01/21 19:20	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-9

Lab Sample ID: 880-6476-9

Date Collected: 09/24/21 08:48

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 23:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 23:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 23:56	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 10:15	09/30/21 23:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 23:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 10:15	09/30/21 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	09/28/21 10:15	09/30/21 23:56	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/28/21 10:15	09/30/21 23:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 19:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 19:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	09/27/21 08:53	09/27/21 19:00	1
o-Terphenyl (Surr)	94		70 - 130	09/27/21 08:53	09/27/21 19:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		5.01	mg/Kg			10/01/21 19:27	1

Client Sample ID: C-10

Lab Sample ID: 880-6476-10

Date Collected: 09/24/21 08:49

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	10/01/21 00:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	10/01/21 00:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	10/01/21 00:22	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 10:15	10/01/21 00:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	10/01/21 00:22	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 10:15	10/01/21 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	207	S1+	70 - 130	09/28/21 10:15	10/01/21 00:22	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/28/21 10:15	10/01/21 00:22	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-10

Lab Sample ID: 880-6476-10

Date Collected: 09/24/21 08:49

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 19:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 19:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 08:53	09/27/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/27/21 08:53	09/27/21 19:22	1
o-Terphenyl (Surr)	110		70 - 130			09/27/21 08:53	09/27/21 19:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.4		4.96	mg/Kg			10/01/21 19:33	1

Client Sample ID: C-11

Lab Sample ID: 880-6476-11

Date Collected: 09/24/21 08:50

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 19:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 19:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 19:19	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/29/21 14:00	09/30/21 19:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 19:19	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/29/21 14:00	09/30/21 19:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			09/29/21 14:00	09/30/21 19:19	1
1,4-Difluorobenzene (Surr)	71		70 - 130			09/29/21 14:00	09/30/21 19:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 19:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 19:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-11

Lab Sample ID: 880-6476-11

Date Collected: 09/24/21 08:50

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 19:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/27/21 08:53	09/27/21 19:44	1
o-Terphenyl (Surr)	106		70 - 130			09/27/21 08:53	09/27/21 19:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		5.04	mg/Kg			10/01/21 19:40	1

Client Sample ID: C-12

Lab Sample ID: 880-6476-12

Date Collected: 09/24/21 08:51

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 10:15	10/01/21 00:49	1
Toluene	0.00220		0.00199	mg/Kg		09/28/21 10:15	10/01/21 00:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 10:15	10/01/21 00:49	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 10:15	10/01/21 00:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 10:15	10/01/21 00:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 10:15	10/01/21 00:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			09/28/21 10:15	10/01/21 00:49	1
1,4-Difluorobenzene (Surr)	81		70 - 130			09/28/21 10:15	10/01/21 00:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00220		0.00200	mg/Kg			10/04/21 17:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 15:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 15:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 15:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			09/27/21 08:46	09/27/21 15:01	1
o-Terphenyl (Surr)	104		70 - 130			09/27/21 08:46	09/27/21 15:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.6		4.97	mg/Kg			10/01/21 19:46	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-13

Lab Sample ID: 880-6476-13

Date Collected: 09/24/21 08:52

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 10:15	10/01/21 01:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 10:15	10/01/21 01:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 10:15	10/01/21 01:16	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 10:15	10/01/21 01:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 10:15	10/01/21 01:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 10:15	10/01/21 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/28/21 10:15	10/01/21 01:16	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/28/21 10:15	10/01/21 01:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 17:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 15:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 15:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	09/27/21 08:46	09/27/21 15:23	1
o-Terphenyl (Surr)	100		70 - 130	09/27/21 08:46	09/27/21 15:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.1		4.95	mg/Kg			10/01/21 19:52	1

Client Sample ID: C-14

Lab Sample ID: 880-6476-14

Date Collected: 09/24/21 08:53

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/29/21 14:00	09/30/21 19:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/21 14:00	09/30/21 19:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/21 14:00	09/30/21 19:40	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/29/21 14:00	09/30/21 19:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/21 14:00	09/30/21 19:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/21 14:00	09/30/21 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130	09/29/21 14:00	09/30/21 19:40	1
1,4-Difluorobenzene (Surr)	83		70 - 130	09/29/21 14:00	09/30/21 19:40	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-14

Lab Sample ID: 880-6476-14

Date Collected: 09/24/21 08:53

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			09/30/21 11:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 15:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 15:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 15:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			09/27/21 08:46	09/27/21 15:45	1
o-Terphenyl (Surr)	100		70 - 130			09/27/21 08:46	09/27/21 15:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.5		4.98	mg/Kg			10/01/21 19:59	1

Client Sample ID: C-15

Lab Sample ID: 880-6476-15

Date Collected: 09/24/21 08:54

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	10/01/21 01:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	10/01/21 01:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	10/01/21 01:42	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 10:15	10/01/21 01:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	10/01/21 01:42	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 10:15	10/01/21 01:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			09/28/21 10:15	10/01/21 01:42	1
1,4-Difluorobenzene (Surr)	87		70 - 130			09/28/21 10:15	10/01/21 01:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 17:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 16:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 16:28	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-15

Lab Sample ID: 880-6476-15

Date Collected: 09/24/21 08:54

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 16:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			09/27/21 08:46	09/27/21 16:28	1
o-Terphenyl (Surr)	94		70 - 130			09/27/21 08:46	09/27/21 16:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.8		4.99	mg/Kg			10/01/21 22:19	1

Client Sample ID: C-16

Lab Sample ID: 880-6476-16

Date Collected: 09/24/21 08:55

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	10/01/21 02:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	10/01/21 02:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	10/01/21 02:09	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 10:15	10/01/21 02:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	10/01/21 02:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 10:15	10/01/21 02:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			09/28/21 10:15	10/01/21 02:09	1
1,4-Difluorobenzene (Surr)	109		70 - 130			09/28/21 10:15	10/01/21 02:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 17:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 16:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 16:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 16:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/27/21 08:46	09/27/21 16:50	1
o-Terphenyl (Surr)	94		70 - 130			09/27/21 08:46	09/27/21 16:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.2		4.97	mg/Kg			10/01/21 22:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-17

Lab Sample ID: 880-6476-17

Date Collected: 09/24/21 08:56

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/21 09:00	09/29/21 17:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/21 09:00	09/29/21 17:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/21 09:00	09/29/21 17:24	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/29/21 09:00	09/29/21 17:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/21 09:00	09/29/21 17:24	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/29/21 09:00	09/29/21 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	09/29/21 09:00	09/29/21 17:24	1
1,4-Difluorobenzene (Surr)	88		70 - 130	09/29/21 09:00	09/29/21 17:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 17:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 17:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/21 08:46	09/27/21 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	09/27/21 08:46	09/27/21 17:12	1
o-Terphenyl (Surr)	105		70 - 130	09/27/21 08:46	09/27/21 17:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.7		4.95	mg/Kg			10/01/21 22:31	1

Client Sample ID: C-18

Lab Sample ID: 880-6476-18

Date Collected: 09/24/21 08:57

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/29/21 09:00	09/29/21 17:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/29/21 09:00	09/29/21 17:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/29/21 09:00	09/29/21 17:44	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/29/21 09:00	09/29/21 17:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/29/21 09:00	09/29/21 17:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/29/21 09:00	09/29/21 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/29/21 09:00	09/29/21 17:44	1
1,4-Difluorobenzene (Surr)	77		70 - 130	09/29/21 09:00	09/29/21 17:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-18

Lab Sample ID: 880-6476-18

Date Collected: 09/24/21 08:57

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 17:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 17:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			09/27/21 08:46	09/27/21 17:34	1
o-Terphenyl (Surr)	111		70 - 130			09/27/21 08:46	09/27/21 17:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.7		4.98	mg/Kg			10/01/21 22:36	1

Client Sample ID: C-19

Lab Sample ID: 880-6476-19

Date Collected: 09/24/21 08:58

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/21 09:00	09/29/21 18:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/21 09:00	09/29/21 18:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/21 09:00	09/29/21 18:05	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/29/21 09:00	09/29/21 18:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/21 09:00	09/29/21 18:05	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/29/21 09:00	09/29/21 18:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			09/29/21 09:00	09/29/21 18:05	1
1,4-Difluorobenzene (Surr)	74		70 - 130			09/29/21 09:00	09/29/21 18:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 17:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 17:55	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-19

Lab Sample ID: 880-6476-19

Date Collected: 09/24/21 08:58

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			09/27/21 08:46	09/27/21 17:55	1
o-Terphenyl (Surr)	104		70 - 130			09/27/21 08:46	09/27/21 17:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.5		4.95	mg/Kg			10/01/21 22:53	1

Client Sample ID: C-20

Lab Sample ID: 880-6476-20

Date Collected: 09/24/21 08:59

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/29/21 09:00	09/29/21 18:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/21 09:00	09/29/21 18:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/21 09:00	09/29/21 18:25	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/29/21 09:00	09/29/21 18:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/21 09:00	09/29/21 18:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/21 09:00	09/29/21 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			09/29/21 09:00	09/29/21 18:25	1
1,4-Difluorobenzene (Surr)	74		70 - 130			09/29/21 09:00	09/29/21 18:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 18:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 18:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 18:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			09/27/21 08:46	09/27/21 18:17	1
o-Terphenyl (Surr)	98		70 - 130			09/27/21 08:46	09/27/21 18:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.0		5.05	mg/Kg			10/01/21 22:59	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-21

Lab Sample ID: 880-6476-21

Date Collected: 09/24/21 09:00

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199	mg/Kg		09/28/21 13:04	09/29/21 23:50	1
Toluene	<0.00199	U F2 F1	0.00199	mg/Kg		09/28/21 13:04	09/29/21 23:50	1
Ethylbenzene	<0.00199	U F2 F1	0.00199	mg/Kg		09/28/21 13:04	09/29/21 23:50	1
m,p-Xylenes	<0.00398	U F2 F1	0.00398	mg/Kg		09/28/21 13:04	09/29/21 23:50	1
o-Xylene	<0.00199	U F2 F1	0.00199	mg/Kg		09/28/21 13:04	09/29/21 23:50	1
Xylenes, Total	<0.00398	U F2 F1	0.00398	mg/Kg		09/28/21 13:04	09/29/21 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	09/28/21 13:04	09/29/21 23:50	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/28/21 13:04	09/29/21 23:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 18:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 18:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130	09/27/21 08:46	09/27/21 18:38	1
o-Terphenyl (Surr)	122		70 - 130	09/27/21 08:46	09/27/21 18:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.5		4.99	mg/Kg			10/01/21 23:04	1

Client Sample ID: C-22

Lab Sample ID: 880-6476-22

Date Collected: 09/24/21 09:01

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 00:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 00:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 00:10	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:04	09/30/21 00:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 00:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:04	09/30/21 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	09/28/21 13:04	09/30/21 00:10	1
1,4-Difluorobenzene (Surr)	83		70 - 130	09/28/21 13:04	09/30/21 00:10	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-22

Lab Sample ID: 880-6476-22

Date Collected: 09/24/21 09:01

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 19:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 19:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 19:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			09/27/21 08:46	09/27/21 19:00	1
o-Terphenyl (Surr)	93		70 - 130			09/27/21 08:46	09/27/21 19:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.3		5.04	mg/Kg			10/01/21 23:10	1

Client Sample ID: C-23

Lab Sample ID: 880-6476-23

Date Collected: 09/24/21 09:02

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 00:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 00:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 00:31	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/28/21 13:04	09/30/21 00:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 00:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/28/21 13:04	09/30/21 00:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			09/28/21 13:04	09/30/21 00:31	1
1,4-Difluorobenzene (Surr)	78		70 - 130			09/28/21 13:04	09/30/21 00:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 19:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 19:22	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-23

Lab Sample ID: 880-6476-23

Date Collected: 09/24/21 09:02

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/21 08:46	09/27/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			09/27/21 08:46	09/27/21 19:22	1
o-Terphenyl (Surr)	94		70 - 130			09/27/21 08:46	09/27/21 19:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.66		4.97	mg/Kg			10/01/21 23:15	1

Client Sample ID: C-24

Lab Sample ID: 880-6476-24

Date Collected: 09/24/21 09:03

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:04	09/30/21 00:51	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:04	09/30/21 00:51	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:04	09/30/21 00:51	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/28/21 13:04	09/30/21 00:51	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:04	09/30/21 00:51	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/28/21 13:04	09/30/21 00:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			09/28/21 13:04	09/30/21 00:51	1
1,4-Difluorobenzene (Surr)	77		70 - 130			09/28/21 13:04	09/30/21 00:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 19:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 19:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 19:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			09/27/21 08:46	09/27/21 19:44	1
o-Terphenyl (Surr)	104		70 - 130			09/27/21 08:46	09/27/21 19:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.8		4.95	mg/Kg			10/01/21 23:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-25

Lab Sample ID: 880-6476-25

Date Collected: 09/24/21 09:04

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:04	09/30/21 01:12	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:04	09/30/21 01:12	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:04	09/30/21 01:12	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		09/28/21 13:04	09/30/21 01:12	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:04	09/30/21 01:12	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/28/21 13:04	09/30/21 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	09/28/21 13:04	09/30/21 01:12	1
1,4-Difluorobenzene (Surr)	75		70 - 130	09/28/21 13:04	09/30/21 01:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 17:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 17:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130	09/28/21 11:15	09/29/21 17:29	1
o-Terphenyl (Surr)	132	S1+	70 - 130	09/28/21 11:15	09/29/21 17:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.8		5.01	mg/Kg			10/01/21 23:38	1

Client Sample ID: C-26

Lab Sample ID: 880-6476-26

Date Collected: 09/24/21 09:05

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 01:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 01:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 01:32	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/28/21 13:04	09/30/21 01:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 01:32	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/28/21 13:04	09/30/21 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	09/28/21 13:04	09/30/21 01:32	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/28/21 13:04	09/30/21 01:32	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-26

Lab Sample ID: 880-6476-26

Date Collected: 09/24/21 09:05

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 17:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 17:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 17:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			09/28/21 11:15	09/29/21 17:50	1
o-Terphenyl (Surr)	118		70 - 130			09/28/21 11:15	09/29/21 17:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.2		4.97	mg/Kg			10/01/21 23:43	1

Client Sample ID: C-27

Lab Sample ID: 880-6476-27

Date Collected: 09/24/21 09:06

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:04	09/30/21 01:52	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:04	09/30/21 01:52	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:04	09/30/21 01:52	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		09/28/21 13:04	09/30/21 01:52	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/28/21 13:04	09/30/21 01:52	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/28/21 13:04	09/30/21 01:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			09/28/21 13:04	09/30/21 01:52	1
1,4-Difluorobenzene (Surr)	71		70 - 130			09/28/21 13:04	09/30/21 01:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 11:15	09/29/21 18:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 11:15	09/29/21 18:12	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-27

Lab Sample ID: 880-6476-27

Date Collected: 09/24/21 09:06

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 11:15	09/29/21 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			09/28/21 11:15	09/29/21 18:12	1
o-Terphenyl (Surr)	104		70 - 130			09/28/21 11:15	09/29/21 18:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.9		4.99	mg/Kg			10/02/21 00:01	1

Client Sample ID: C-28

Lab Sample ID: 880-6476-28

Date Collected: 09/24/21 09:07

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 02:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 02:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 02:13	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:04	09/30/21 02:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/30/21 02:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:04	09/30/21 02:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130			09/28/21 13:04	09/30/21 02:13	1
1,4-Difluorobenzene (Surr)	81		70 - 130			09/28/21 13:04	09/30/21 02:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:07	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 18:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 18:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 18:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			09/28/21 11:15	09/29/21 18:33	1
o-Terphenyl (Surr)	122		70 - 130			09/28/21 11:15	09/29/21 18:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.2		5.02	mg/Kg			10/02/21 00:06	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-29

Lab Sample ID: 880-6476-29

Date Collected: 09/24/21 09:08

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:04	09/30/21 02:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:04	09/30/21 02:33	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:04	09/30/21 02:33	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		09/28/21 13:04	09/30/21 02:33	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/28/21 13:04	09/30/21 02:33	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/28/21 13:04	09/30/21 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	09/28/21 13:04	09/30/21 02:33	1
1,4-Difluorobenzene (Surr)	84		70 - 130	09/28/21 13:04	09/30/21 02:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/28/21 11:15	09/29/21 18:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/28/21 11:15	09/29/21 18:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/28/21 11:15	09/29/21 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	09/28/21 11:15	09/29/21 18:55	1
o-Terphenyl (Surr)	118		70 - 130	09/28/21 11:15	09/29/21 18:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		4.97	mg/Kg			10/02/21 00:12	1

Client Sample ID: C-30

Lab Sample ID: 880-6476-30

Date Collected: 09/24/21 09:09

Matrix: Solid

Date Received: 09/24/21 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:04	09/30/21 02:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:04	09/30/21 02:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:04	09/30/21 02:54	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/28/21 13:04	09/30/21 02:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/28/21 13:04	09/30/21 02:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/28/21 13:04	09/30/21 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	09/28/21 13:04	09/30/21 02:54	1
1,4-Difluorobenzene (Surr)	80		70 - 130	09/28/21 13:04	09/30/21 02:54	1

Eurofins Xenco, Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-30

Lab Sample ID: 880-6476-30

Date Collected: 09/24/21 09:09

Matrix: Solid

Date Received: 09/24/21 16:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 16:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/21 17:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 19:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 19:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 19:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			09/28/21 11:15	09/29/21 19:16	1
o-Terphenyl (Surr)	121		70 - 130			09/28/21 11:15	09/29/21 19:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.5		4.98	mg/Kg			10/02/21 00:17	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
820-2021-A-1-D MS	Matrix Spike	130	62 S1-
820-2021-A-1-E MSD	Matrix Spike Duplicate	114	81
880-6476-1	C-1	121	95
880-6476-1 MS	C-1	114	111
880-6476-1 MSD	C-1	109	104
880-6476-2	C-2	112	107
880-6476-3	C-3	113	105
880-6476-4	C-4	111	105
880-6476-5	C-5	97	86
880-6476-6	C-6	154 S1+	116
880-6476-7	C-7	124	74
880-6476-8	C-8	144 S1+	80
880-6476-9	C-9	134 S1+	105
880-6476-10	C-10	207 S1+	97
880-6476-11	C-11	129	71
880-6476-12	C-12	90	81
880-6476-13	C-13	102	102
880-6476-14	C-14	160 S1+	83
880-6476-15	C-15	99	87
880-6476-16	C-16	112	109
880-6476-17	C-17	123	88
880-6476-18	C-18	117	77
880-6476-19	C-19	111	74
880-6476-20	C-20	116	74
880-6476-21	C-21	140 S1+	85
880-6476-21 MS	C-21	120	78
880-6476-21 MSD	C-21	129	75
880-6476-22	C-22	140 S1+	83
880-6476-23	C-23	130	78
880-6476-24	C-24	138 S1+	77
880-6476-25	C-25	137 S1+	75
880-6476-26	C-26	149 S1+	86
880-6476-27	C-27	136 S1+	71
880-6476-28	C-28	146 S1+	81
880-6476-29	C-29	150 S1+	84
880-6476-30	C-30	140 S1+	80
LCS 880-8508/1-A	Lab Control Sample	111	105
LCS 880-8515/1-A	Lab Control Sample	117	84
LCS 880-8516/1-A	Lab Control Sample	119	78
LCS 880-8537/1-A	Lab Control Sample	120	83
LCSD 880-8508/2-A	Lab Control Sample Dup	109	109
LCSD 880-8515/2-A	Lab Control Sample Dup	115	74
LCSD 880-8516/2-A	Lab Control Sample Dup	119	77
LCSD 880-8537/2-A	Lab Control Sample Dup	114	81
MB 880-8508/5-A	Method Blank	66 S1-	95
MB 880-8515/5-A	Method Blank	101	80
MB 880-8516/5-A	Method Blank	122	76
MB 880-8537/5-A	Method Blank	118	84

Surrogate Legend

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6476-1

Project/Site: Palmio Backfill

SDG: 21-0105-02

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

BFB1

DFBZ1

Lab Sample ID

Client Sample ID

890-1315-A-1-B MSD

Matrix Spike Duplicate

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

1CO1

OTPH1

(70-130)

(70-130)

Lab Sample ID

Client Sample ID

880-6278-A-47-E MS

Matrix Spike

111

99

880-6278-A-47-F MSD

Matrix Spike Duplicate

119

109

880-6278-A-54-E MS

Matrix Spike

97

92

880-6278-A-54-F MSD

Matrix Spike Duplicate

104

91

880-6476-1

C-1

122

133 S1+

880-6476-2

C-2

115

130

880-6476-3

C-3

107

119

880-6476-4

C-4

107

113

880-6476-5

C-5

93

97

880-6476-6

C-6

100

109

880-6476-7

C-7

88

91

880-6476-8

C-8

85

86

880-6476-9

C-9

91

94

880-6476-10

C-10

98

110

880-6476-11

C-11

101

106

880-6476-12

C-12

104

104

880-6476-13

C-13

99

100

880-6476-14

C-14

101

100

880-6476-15

C-15

95

94

880-6476-16

C-16

98

94

880-6476-17

C-17

107

105

880-6476-18

C-18

114

111

880-6476-19

C-19

112

104

880-6476-20

C-20

104

98

880-6476-21

C-21

119

122

880-6476-22

C-22

97

93

880-6476-23

C-23

94

94

880-6476-24

C-24

102

104

880-6476-25

C-25

118

132 S1+

880-6476-26

C-26

107

118

880-6476-27

C-27

98

104

880-6476-28

C-28

110

122

880-6476-29

C-29

106

118

880-6476-30

C-30

112

121

890-1306-A-1-C MS

Matrix Spike

119

104

890-1306-A-1-D MSD

Matrix Spike Duplicate

130

118

Eurofins Xenco, Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-6476-1

Project/Site: Palmio Backfill

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
LCS 880-8426/2-A	Lab Control Sample	128	117
LCS 880-8435/2-A	Lab Control Sample	122	116
LCS 880-8511/2-A	Lab Control Sample	110	110
LCSD 880-8426/3-A	Lab Control Sample Dup	116	105
LCSD 880-8435/3-A	Lab Control Sample Dup	120	118
LCSD 880-8511/3-A	Lab Control Sample Dup	98	98
MB 880-8426/1-A	Method Blank	108	113
MB 880-8435/1-A	Method Blank	123	137 S1+
MB 880-8511/1-A	Method Blank	97	105
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8508/5-A

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8508

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 16:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 16:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 16:50	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 10:15	09/30/21 16:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 10:15	09/30/21 16:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 10:15	09/30/21 16:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	09/28/21 10:15	09/30/21 16:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/28/21 10:15	09/30/21 16:50	1

Lab Sample ID: LCS 880-8508/1-A

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09971		mg/Kg		100	70 - 130
Toluene	0.100	0.1098		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1041		mg/Kg		104	70 - 130
m,p-Xylenes	0.200	0.2265		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1122		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-8508/2-A

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8508

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09868		mg/Kg		99	70 - 130	1	35
Toluene	0.100	0.1089		mg/Kg		109	70 - 130	1	35
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130	0	35
m,p-Xylenes	0.200	0.2282		mg/Kg		114	70 - 130	1	35
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-6476-1 MS

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: C-1

Prep Type: Total/NA

Prep Batch: 8508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F2 F1	0.100	0.07580		mg/Kg		76	70 - 130
Toluene	<0.00198	U F2 F1	0.100	0.08010		mg/Kg		80	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6476-1 MS

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: C-1

Prep Type: Total/NA

Prep Batch: 8508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U F2 F1	0.100	0.07500		mg/Kg		75	70 - 130
m,p-Xylenes	<0.00396	U F2 F1	0.201	0.1595		mg/Kg		79	70 - 130
o-Xylene	<0.00198	U F2 F1	0.100	0.08292		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-6476-1 MSD

Matrix: Solid

Analysis Batch: 8644

Client Sample ID: C-1

Prep Type: Total/NA

Prep Batch: 8508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F2 F1	0.0998	0.04621	F2 F1	mg/Kg		46	70 - 130	49	35
Toluene	<0.00198	U F2 F1	0.0998	0.04206	F2 F1	mg/Kg		42	70 - 130	62	35
Ethylbenzene	<0.00198	U F2 F1	0.0998	0.03196	F2 F1	mg/Kg		32	70 - 130	80	35
m,p-Xylenes	<0.00396	U F2 F1	0.200	0.06537	F2 F1	mg/Kg		33	70 - 130	84	35
o-Xylene	<0.00198	U F2 F1	0.0998	0.03667	F2 F1	mg/Kg		37	70 - 130	77	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-8515/5-A

Matrix: Solid

Analysis Batch: 8570

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8515

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/21 09:00	09/29/21 12:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/21 09:00	09/29/21 12:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/21 09:00	09/29/21 12:36	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/29/21 09:00	09/29/21 12:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/21 09:00	09/29/21 12:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/29/21 09:00	09/29/21 12:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/29/21 09:00	09/29/21 12:36	1
1,4-Difluorobenzene (Surr)	80		70 - 130	09/29/21 09:00	09/29/21 12:36	1

Lab Sample ID: LCS 880-8515/1-A

Matrix: Solid

Analysis Batch: 8570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08582		mg/Kg		86	70 - 130
Toluene	0.100	0.08861		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09518		mg/Kg		95	70 - 130
m,p-Xylenes	0.200	0.1968		mg/Kg		98	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-8515/1-A

Matrix: Solid

Analysis Batch: 8570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.09887		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-8515/2-A

Matrix: Solid

Analysis Batch: 8570

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8515

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08722		mg/Kg		87	70 - 130	2	35
Toluene	0.100	0.09218		mg/Kg		92	70 - 130	4	35
Ethylbenzene	0.100	0.09766		mg/Kg		98	70 - 130	3	35
m,p-Xylenes	0.200	0.2030		mg/Kg		101	70 - 130	3	35
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Lab Sample ID: 890-1315-A-1-B MSD

Matrix: Solid

Analysis Batch: 8570

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8515

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08971		mg/Kg					
Toluene	<0.00199	U	0.100	0.09261		mg/Kg					
Ethylbenzene	0.00423		0.100	0.09722		mg/Kg					
m,p-Xylenes	0.0102		0.200	0.2041		mg/Kg					
o-Xylene	0.00770		0.100	0.1032		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: MB 880-8516/5-A

Matrix: Solid

Analysis Batch: 8570

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8516

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/29/21 23:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/29/21 23:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/29/21 23:28	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/28/21 13:04	09/29/21 23:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:04	09/29/21 23:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:04	09/29/21 23:28	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8516/5-A

Matrix: Solid

Analysis Batch: 8570

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8516

	MB	MB			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	122		70 - 130	09/28/21 13:04	09/29/21 23:28
1,4-Difluorobenzene (Surr)	76		70 - 130	09/28/21 13:04	09/29/21 23:28

Lab Sample ID: LCS 880-8516/1-A

Matrix: Solid

Analysis Batch: 8570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8516

		Spike	LCS	LCS					%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene		0.100	0.08801		mg/Kg		88	70 - 130		
Toluene		0.100	0.09347		mg/Kg		93	70 - 130		
Ethylbenzene		0.100	0.09972		mg/Kg		100	70 - 130		
m,p-Xylenes		0.200	0.2051		mg/Kg		103	70 - 130		
o-Xylene		0.100	0.1047		mg/Kg		105	70 - 130		

	LCS	LCS		
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	119		70 - 130	
1,4-Difluorobenzene (Surr)	78		70 - 130	

Lab Sample ID: LCSD 880-8516/2-A

Matrix: Solid

Analysis Batch: 8570

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8516

		Spike	LCSD	LCSD					%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		RPD	Limit
Benzene		0.100	0.08894		mg/Kg		89	70 - 130		1	35
Toluene		0.100	0.09378		mg/Kg		94	70 - 130		0	35
Ethylbenzene		0.100	0.1009		mg/Kg		101	70 - 130		1	35
m,p-Xylenes		0.200	0.2071		mg/Kg		104	70 - 130		1	35
o-Xylene		0.100	0.1060		mg/Kg		106	70 - 130		1	35

	LCSD	LCSD		
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	119		70 - 130	
1,4-Difluorobenzene (Surr)	77		70 - 130	

Lab Sample ID: 880-6476-21 MS

Matrix: Solid

Analysis Batch: 8570

Client Sample ID: C-21

Prep Type: Total/NA

Prep Batch: 8516

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F2 F1	0.101	0.05945	F1	mg/Kg		59	70 - 130	
Toluene	<0.00199	U F2 F1	0.101	0.06187	F1	mg/Kg		61	70 - 130	
Ethylbenzene	<0.00199	U F2 F1	0.101	0.06229	F1	mg/Kg		62	70 - 130	
m,p-Xylenes	<0.00398	U F2 F1	0.202	0.1283	F1	mg/Kg		64	70 - 130	
o-Xylene	<0.00199	U F2 F1	0.101	0.06484	F1	mg/Kg		64	70 - 130	

	MS	MS		
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	120		70 - 130	
1,4-Difluorobenzene (Surr)	78		70 - 130	

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-6476-21 MSD

Matrix: Solid

Analysis Batch: 8570

Client Sample ID: C-21

Prep Type: Total/NA

Prep Batch: 8516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.0996	0.02435	F2 F1	mg/Kg		24	70 - 130	84	35
Toluene	<0.00199	U F2 F1	0.0996	0.02848	F2 F1	mg/Kg		28	70 - 130	74	35
Ethylbenzene	<0.00199	U F2 F1	0.0996	0.02747	F2 F1	mg/Kg		28	70 - 130	78	35
m,p-Xylenes	<0.00398	U F2 F1	0.199	0.05519	F2 F1	mg/Kg		28	70 - 130	80	35
o-Xylene	<0.00199	U F2 F1	0.0996	0.02897	F2 F1	mg/Kg		29	70 - 130	76	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	75		70 - 130

Lab Sample ID: MB 880-8537/5-A

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8537

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 12:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 12:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 12:07	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/29/21 14:00	09/30/21 12:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/21 14:00	09/30/21 12:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/29/21 14:00	09/30/21 12:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	09/29/21 14:00	09/30/21 12:07	1
1,4-Difluorobenzene (Surr)	84		70 - 130	09/29/21 14:00	09/30/21 12:07	1

Lab Sample ID: LCS 880-8537/1-A

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07886		mg/Kg		79	70 - 130
Toluene	0.100	0.08522		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.09110		mg/Kg		91	70 - 130
m,p-Xylenes	0.200	0.1962		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09927		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: LCSD 880-8537/2-A

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8537

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08191		mg/Kg		82	70 - 130	4	35
Toluene	0.100	0.08700		mg/Kg		87	70 - 130	2	35

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-8537/2-A

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8537

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.09113		mg/Kg		91	70 - 130	0	35
m,p-Xylenes	0.200	0.1959		mg/Kg		98	70 - 130	0	35
o-Xylene	0.100	0.09927		mg/Kg		99	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 820-2021-A-1-D MS

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8537

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1	0.100	0.06268	F1	mg/Kg		62	70 - 130
Toluene	<0.00202	U F1	0.100	0.06782	F1	mg/Kg		68	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.08522		mg/Kg		84	70 - 130
m,p-Xylenes	<0.00403	U	0.201	0.1780		mg/Kg		88	70 - 130
o-Xylene	<0.00202	U	0.100	0.08862		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130

Lab Sample ID: 820-2021-A-1-E MSD

Matrix: Solid

Analysis Batch: 8636

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8537

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.101	0.06959	F1	mg/Kg		69	70 - 130	10	35
Toluene	<0.00202	U F1	0.101	0.07508		mg/Kg		75	70 - 130	10	35
Ethylbenzene	<0.00202	U	0.101	0.07482		mg/Kg		73	70 - 130	13	35
m,p-Xylenes	<0.00403	U	0.201	0.1582		mg/Kg		78	70 - 130	12	35
o-Xylene	<0.00202	U	0.101	0.08089		mg/Kg		80	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-8426/1-A

Matrix: Solid

Analysis Batch: 8427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8426

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 10:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 10:32	1

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-8426/1-A

Matrix: Solid

Analysis Batch: 8427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8426

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:46	09/27/21 10:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	09/27/21 08:46	09/27/21 10:32	1
o-Terphenyl (Surr)	113		70 - 130	09/27/21 08:46	09/27/21 10:32	1

Lab Sample ID: LCS 880-8426/2-A

Matrix: Solid

Analysis Batch: 8427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1124		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1158		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	128		70 - 130
o-Terphenyl (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-8426/3-A

Matrix: Solid

Analysis Batch: 8427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8426

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	937.5		mg/Kg		94	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	1022		mg/Kg		102	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	116		70 - 130
o-Terphenyl (Surr)	105		70 - 130

Lab Sample ID: 880-6278-A-47-E MS

Matrix: Solid

Analysis Batch: 8427

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8426

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	1011		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	893.8		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6278-A-47-F MSD

Matrix: Solid

Analysis Batch: 8427

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8426

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	1029		mg/Kg		103	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	992.2		mg/Kg		99	70 - 130	10	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	119		70 - 130								
o-Terphenyl (Surr)	109		70 - 130								

Lab Sample ID: MB 880-8435/1-A

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8435

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 10:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 10:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/21 08:53	09/27/21 10:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130			09/27/21 08:53	09/27/21 10:32	1
o-Terphenyl (Surr)	137	S1+	70 - 130			09/27/21 08:53	09/27/21 10:32	1

Lab Sample ID: LCS 880-8435/2-A

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1138		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1135		mg/Kg		113	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	122		70 - 130						
o-Terphenyl (Surr)	116		70 - 130						

Lab Sample ID: LCSD 880-8435/3-A

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8435

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1066		mg/Kg		107	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1120		mg/Kg		112	70 - 130	1	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-8435/3-A

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8435

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	120		70 - 130
o-Terphenyl (Surr)	118		70 - 130

Lab Sample ID: 880-6278-A-54-E MS

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8435

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	894.3		mg/Kg		90	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	997	810.0		mg/Kg		81	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	97		70 - 130							
o-Terphenyl (Surr)	92		70 - 130							

Lab Sample ID: 880-6278-A-54-F MSD

Matrix: Solid

Analysis Batch: 8429

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8435

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	920.6		mg/Kg		92	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	<49.8	U	999	810.8		mg/Kg		81	70 - 130	0	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	104		70 - 130									
o-Terphenyl (Surr)	91		70 - 130									

Lab Sample ID: MB 880-8511/1-A

Matrix: Solid

Analysis Batch: 8567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8511

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 10:11	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 10:11	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/21 11:15	09/29/21 10:11	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	97		70 - 130			09/28/21 11:15	09/29/21 10:11	1		
o-Terphenyl (Surr)	105		70 - 130			09/28/21 11:15	09/29/21 10:11	1		

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-8511/2-A

Matrix: Solid

Analysis Batch: 8567

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8511

Analyte			Spike	LCS	LCS	Unit	D	%Rec.		
			Added	Result	Qualifier			%Rec		
Gasoline Range Organics (GRO)-C6-C10			1000	905.6		mg/Kg		91	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1132		mg/Kg		113	70 - 130	
Surrogate		LCS	LCS							
	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	110		70 - 130							
o-Terphenyl (Surr)	110		70 - 130							

Lab Sample ID: LCSD 880-8511/3-A

Matrix: Solid

Analysis Batch: 8567

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8511

Top Data											
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	848.1		mg/Kg		85	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	992.9		mg/Kg		99	70 - 130	13	20
Bottom Data											
Surrogate	%Recovery	LCSD	LCSD	Limits							
					Qualifier						
1-Chlorooctane (Surr)	98			70 - 130							
o-Terphenyl (Surr)	98			70 - 130							

Lab Sample ID: 890-1306-A-1-C MS

Matrix: Solid

Analysis Batch: 8567

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8511

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	646		997	1561		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	1630	F1	997	2624		mg/Kg		99	70 - 130		
									</		

Lab Sample ID: 890-1306-A-1-D MSD

Matrix: Solid

Analysis Batch: 8567

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8511

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	646		999	1779		mg/Kg		113	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1630	F1	999	3058	F1	mg/Kg		143	70 - 130	15	20

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1306-A-1-D MSD

Matrix: Solid

Analysis Batch: 8567

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8511

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	118		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8480/1-A

Matrix: Solid

Analysis Batch: 8749

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00	mg/Kg			10/01/21 16:42	1	

Lab Sample ID: LCS 880-8480/2-A

Matrix: Solid

Analysis Batch: 8749

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	247.5		mg/Kg		99	90 - 110	

Lab Sample ID: LCSD 880-8480/3-A

Matrix: Solid

Analysis Batch: 8749

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	246.7		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-6476-5 MS

Matrix: Solid

Analysis Batch: 8749

Client Sample ID: C-5

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	12.8		248	261.1		mg/Kg		100	90 - 110		

Lab Sample ID: 880-6476-5 MSD

Matrix: Solid

Analysis Batch: 8749

Client Sample ID: C-5

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	12.8		248	260.5		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-8481/1-A

Matrix: Solid

Analysis Batch: 8750

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			10/01/21 21:45	1		

Eurofins Xenco, Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-8481/2-A

Matrix: Solid

Analysis Batch: 8750

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	262.3		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-8481/3-A

Matrix: Solid

Analysis Batch: 8750

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	263.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-6476-24 MS

Matrix: Solid

Analysis Batch: 8750

Client Sample ID: C-24

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	17.8		248	281.9		mg/Kg		107	90 - 110		

Lab Sample ID: 880-6476-24 MSD

Matrix: Solid

Analysis Batch: 8750

Client Sample ID: C-24

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	17.8		248	282.3		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

GC VOA

Prep Batch: 8508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-1	C-1	Total/NA	Solid	5035	
880-6476-2	C-2	Total/NA	Solid	5035	
880-6476-3	C-3	Total/NA	Solid	5035	
880-6476-4	C-4	Total/NA	Solid	5035	
880-6476-6	C-6	Total/NA	Solid	5035	
880-6476-8	C-8	Total/NA	Solid	5035	
880-6476-9	C-9	Total/NA	Solid	5035	
880-6476-10	C-10	Total/NA	Solid	5035	
880-6476-12	C-12	Total/NA	Solid	5035	
880-6476-13	C-13	Total/NA	Solid	5035	
880-6476-15	C-15	Total/NA	Solid	5035	
880-6476-16	C-16	Total/NA	Solid	5035	
MB 880-8508/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8508/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8508/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6476-1 MS	C-1	Total/NA	Solid	5035	
880-6476-1 MSD	C-1	Total/NA	Solid	5035	

Prep Batch: 8515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-17	C-17	Total/NA	Solid	5035	
880-6476-18	C-18	Total/NA	Solid	5035	
880-6476-19	C-19	Total/NA	Solid	5035	
880-6476-20	C-20	Total/NA	Solid	5035	
MB 880-8515/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8515/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8515/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1315-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 8516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-21	C-21	Total/NA	Solid	5035	
880-6476-22	C-22	Total/NA	Solid	5035	
880-6476-23	C-23	Total/NA	Solid	5035	
880-6476-24	C-24	Total/NA	Solid	5035	
880-6476-25	C-25	Total/NA	Solid	5035	
880-6476-26	C-26	Total/NA	Solid	5035	
880-6476-27	C-27	Total/NA	Solid	5035	
880-6476-28	C-28	Total/NA	Solid	5035	
880-6476-29	C-29	Total/NA	Solid	5035	
880-6476-30	C-30	Total/NA	Solid	5035	
MB 880-8516/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8516/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8516/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6476-21 MS	C-21	Total/NA	Solid	5035	
880-6476-21 MSD	C-21	Total/NA	Solid	5035	

Prep Batch: 8537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-5	C-5	Total/NA	Solid	5035	
880-6476-7	C-7	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 8537 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-11	C-11	Total/NA	Solid	5035	
880-6476-14	C-14	Total/NA	Solid	5035	
MB 880-8537/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8537/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8537/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-2021-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
820-2021-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 8570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-17	C-17	Total/NA	Solid	8021B	8515
880-6476-18	C-18	Total/NA	Solid	8021B	8515
880-6476-19	C-19	Total/NA	Solid	8021B	8515
880-6476-20	C-20	Total/NA	Solid	8021B	8515
880-6476-21	C-21	Total/NA	Solid	8021B	8516
880-6476-22	C-22	Total/NA	Solid	8021B	8516
880-6476-23	C-23	Total/NA	Solid	8021B	8516
880-6476-24	C-24	Total/NA	Solid	8021B	8516
880-6476-25	C-25	Total/NA	Solid	8021B	8516
880-6476-26	C-26	Total/NA	Solid	8021B	8516
880-6476-27	C-27	Total/NA	Solid	8021B	8516
880-6476-28	C-28	Total/NA	Solid	8021B	8516
880-6476-29	C-29	Total/NA	Solid	8021B	8516
880-6476-30	C-30	Total/NA	Solid	8021B	8516
MB 880-8515/5-A	Method Blank	Total/NA	Solid	8021B	8515
MB 880-8516/5-A	Method Blank	Total/NA	Solid	8021B	8516
LCS 880-8515/1-A	Lab Control Sample	Total/NA	Solid	8021B	8515
LCS 880-8516/1-A	Lab Control Sample	Total/NA	Solid	8021B	8516
LCSD 880-8515/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8515
LCSD 880-8516/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8516
880-6476-21 MS	C-21	Total/NA	Solid	8021B	8516
880-6476-21 MSD	C-21	Total/NA	Solid	8021B	8516
890-1315-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8515

Analysis Batch: 8636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-5	C-5	Total/NA	Solid	8021B	8537
880-6476-7	C-7	Total/NA	Solid	8021B	8537
880-6476-11	C-11	Total/NA	Solid	8021B	8537
880-6476-14	C-14	Total/NA	Solid	8021B	8537
MB 880-8537/5-A	Method Blank	Total/NA	Solid	8021B	8537
LCS 880-8537/1-A	Lab Control Sample	Total/NA	Solid	8021B	8537
LCSD 880-8537/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8537
820-2021-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	8537
820-2021-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8537

Analysis Batch: 8644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-1	C-1	Total/NA	Solid	8021B	8508
880-6476-2	C-2	Total/NA	Solid	8021B	8508
880-6476-3	C-3	Total/NA	Solid	8021B	8508

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 8644 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-4	C-4	Total/NA	Solid	8021B	8508
880-6476-6	C-6	Total/NA	Solid	8021B	8508
880-6476-8	C-8	Total/NA	Solid	8021B	8508
880-6476-9	C-9	Total/NA	Solid	8021B	8508
880-6476-10	C-10	Total/NA	Solid	8021B	8508
880-6476-12	C-12	Total/NA	Solid	8021B	8508
880-6476-13	C-13	Total/NA	Solid	8021B	8508
880-6476-15	C-15	Total/NA	Solid	8021B	8508
880-6476-16	C-16	Total/NA	Solid	8021B	8508
MB 880-8508/5-A	Method Blank	Total/NA	Solid	8021B	8508
LCS 880-8508/1-A	Lab Control Sample	Total/NA	Solid	8021B	8508
LCSD 880-8508/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8508
880-6476-1 MS	C-1	Total/NA	Solid	8021B	8508
880-6476-1 MSD	C-1	Total/NA	Solid	8021B	8508

Analysis Batch: 8646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-5	C-5	Total/NA	Solid	Total BTEX	
880-6476-7	C-7	Total/NA	Solid	Total BTEX	
880-6476-11	C-11	Total/NA	Solid	Total BTEX	
880-6476-14	C-14	Total/NA	Solid	Total BTEX	

Analysis Batch: 8862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-1	C-1	Total/NA	Solid	Total BTEX	
880-6476-2	C-2	Total/NA	Solid	Total BTEX	
880-6476-3	C-3	Total/NA	Solid	Total BTEX	
880-6476-4	C-4	Total/NA	Solid	Total BTEX	
880-6476-6	C-6	Total/NA	Solid	Total BTEX	
880-6476-8	C-8	Total/NA	Solid	Total BTEX	
880-6476-9	C-9	Total/NA	Solid	Total BTEX	
880-6476-10	C-10	Total/NA	Solid	Total BTEX	
880-6476-12	C-12	Total/NA	Solid	Total BTEX	
880-6476-13	C-13	Total/NA	Solid	Total BTEX	
880-6476-15	C-15	Total/NA	Solid	Total BTEX	
880-6476-16	C-16	Total/NA	Solid	Total BTEX	
880-6476-17	C-17	Total/NA	Solid	Total BTEX	
880-6476-18	C-18	Total/NA	Solid	Total BTEX	
880-6476-19	C-19	Total/NA	Solid	Total BTEX	
880-6476-20	C-20	Total/NA	Solid	Total BTEX	
880-6476-21	C-21	Total/NA	Solid	Total BTEX	
880-6476-22	C-22	Total/NA	Solid	Total BTEX	
880-6476-23	C-23	Total/NA	Solid	Total BTEX	
880-6476-24	C-24	Total/NA	Solid	Total BTEX	
880-6476-25	C-25	Total/NA	Solid	Total BTEX	
880-6476-26	C-26	Total/NA	Solid	Total BTEX	
880-6476-27	C-27	Total/NA	Solid	Total BTEX	
880-6476-28	C-28	Total/NA	Solid	Total BTEX	
880-6476-29	C-29	Total/NA	Solid	Total BTEX	
880-6476-30	C-30	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

GC Semi VOA

Prep Batch: 8426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-12	C-12	Total/NA	Solid	8015NM Prep	
880-6476-13	C-13	Total/NA	Solid	8015NM Prep	
880-6476-14	C-14	Total/NA	Solid	8015NM Prep	
880-6476-15	C-15	Total/NA	Solid	8015NM Prep	
880-6476-16	C-16	Total/NA	Solid	8015NM Prep	
880-6476-17	C-17	Total/NA	Solid	8015NM Prep	
880-6476-18	C-18	Total/NA	Solid	8015NM Prep	
880-6476-19	C-19	Total/NA	Solid	8015NM Prep	
880-6476-20	C-20	Total/NA	Solid	8015NM Prep	
880-6476-21	C-21	Total/NA	Solid	8015NM Prep	
880-6476-22	C-22	Total/NA	Solid	8015NM Prep	
880-6476-23	C-23	Total/NA	Solid	8015NM Prep	
880-6476-24	C-24	Total/NA	Solid	8015NM Prep	
MB 880-8426/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8426/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8426/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6278-A-47-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6278-A-47-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-12	C-12	Total/NA	Solid	8015B NM	8426
880-6476-13	C-13	Total/NA	Solid	8015B NM	8426
880-6476-14	C-14	Total/NA	Solid	8015B NM	8426
880-6476-15	C-15	Total/NA	Solid	8015B NM	8426
880-6476-16	C-16	Total/NA	Solid	8015B NM	8426
880-6476-17	C-17	Total/NA	Solid	8015B NM	8426
880-6476-18	C-18	Total/NA	Solid	8015B NM	8426
880-6476-19	C-19	Total/NA	Solid	8015B NM	8426
880-6476-20	C-20	Total/NA	Solid	8015B NM	8426
880-6476-21	C-21	Total/NA	Solid	8015B NM	8426
880-6476-22	C-22	Total/NA	Solid	8015B NM	8426
880-6476-23	C-23	Total/NA	Solid	8015B NM	8426
880-6476-24	C-24	Total/NA	Solid	8015B NM	8426
MB 880-8426/1-A	Method Blank	Total/NA	Solid	8015B NM	8426
LCS 880-8426/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8426
LCSD 880-8426/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8426
880-6278-A-47-E MS	Matrix Spike	Total/NA	Solid	8015B NM	8426
880-6278-A-47-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8426

Analysis Batch: 8429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-1	C-1	Total/NA	Solid	8015B NM	8435
880-6476-2	C-2	Total/NA	Solid	8015B NM	8435
880-6476-3	C-3	Total/NA	Solid	8015B NM	8435
880-6476-4	C-4	Total/NA	Solid	8015B NM	8435
880-6476-5	C-5	Total/NA	Solid	8015B NM	8435
880-6476-6	C-6	Total/NA	Solid	8015B NM	8435
880-6476-7	C-7	Total/NA	Solid	8015B NM	8435
880-6476-8	C-8	Total/NA	Solid	8015B NM	8435
880-6476-9	C-9	Total/NA	Solid	8015B NM	8435

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-10	C-10	Total/NA	Solid	8015B NM	8435
880-6476-11	C-11	Total/NA	Solid	8015B NM	8435
MB 880-8435/1-A	Method Blank	Total/NA	Solid	8015B NM	8435
LCS 880-8435/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8435
LCSD 880-8435/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8435
880-6278-A-54-E MS	Matrix Spike	Total/NA	Solid	8015B NM	8435
880-6278-A-54-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8435

Prep Batch: 8435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-1	C-1	Total/NA	Solid	8015NM Prep	
880-6476-2	C-2	Total/NA	Solid	8015NM Prep	
880-6476-3	C-3	Total/NA	Solid	8015NM Prep	
880-6476-4	C-4	Total/NA	Solid	8015NM Prep	
880-6476-5	C-5	Total/NA	Solid	8015NM Prep	
880-6476-6	C-6	Total/NA	Solid	8015NM Prep	
880-6476-7	C-7	Total/NA	Solid	8015NM Prep	
880-6476-8	C-8	Total/NA	Solid	8015NM Prep	
880-6476-9	C-9	Total/NA	Solid	8015NM Prep	
880-6476-10	C-10	Total/NA	Solid	8015NM Prep	
880-6476-11	C-11	Total/NA	Solid	8015NM Prep	
MB 880-8435/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8435/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8435/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6278-A-54-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6278-A-54-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 8511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-25	C-25	Total/NA	Solid	8015NM Prep	
880-6476-26	C-26	Total/NA	Solid	8015NM Prep	
880-6476-27	C-27	Total/NA	Solid	8015NM Prep	
880-6476-28	C-28	Total/NA	Solid	8015NM Prep	
880-6476-29	C-29	Total/NA	Solid	8015NM Prep	
880-6476-30	C-30	Total/NA	Solid	8015NM Prep	
MB 880-8511/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8511/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8511/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1306-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1306-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-25	C-25	Total/NA	Solid	8015B NM	8511
880-6476-26	C-26	Total/NA	Solid	8015B NM	8511
880-6476-27	C-27	Total/NA	Solid	8015B NM	8511
880-6476-28	C-28	Total/NA	Solid	8015B NM	8511
880-6476-29	C-29	Total/NA	Solid	8015B NM	8511
880-6476-30	C-30	Total/NA	Solid	8015B NM	8511
MB 880-8511/1-A	Method Blank	Total/NA	Solid	8015B NM	8511
LCS 880-8511/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8511

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 8567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-8511/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8511
890-1306-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	8511
890-1306-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8511

Analysis Batch: 8693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-1	C-1	Total/NA	Solid	8015 NM	
880-6476-2	C-2	Total/NA	Solid	8015 NM	
880-6476-3	C-3	Total/NA	Solid	8015 NM	
880-6476-4	C-4	Total/NA	Solid	8015 NM	
880-6476-5	C-5	Total/NA	Solid	8015 NM	
880-6476-6	C-6	Total/NA	Solid	8015 NM	
880-6476-7	C-7	Total/NA	Solid	8015 NM	
880-6476-8	C-8	Total/NA	Solid	8015 NM	
880-6476-9	C-9	Total/NA	Solid	8015 NM	
880-6476-10	C-10	Total/NA	Solid	8015 NM	
880-6476-11	C-11	Total/NA	Solid	8015 NM	
880-6476-12	C-12	Total/NA	Solid	8015 NM	
880-6476-13	C-13	Total/NA	Solid	8015 NM	
880-6476-14	C-14	Total/NA	Solid	8015 NM	
880-6476-15	C-15	Total/NA	Solid	8015 NM	
880-6476-16	C-16	Total/NA	Solid	8015 NM	
880-6476-17	C-17	Total/NA	Solid	8015 NM	
880-6476-18	C-18	Total/NA	Solid	8015 NM	
880-6476-19	C-19	Total/NA	Solid	8015 NM	
880-6476-20	C-20	Total/NA	Solid	8015 NM	
880-6476-21	C-21	Total/NA	Solid	8015 NM	
880-6476-22	C-22	Total/NA	Solid	8015 NM	
880-6476-23	C-23	Total/NA	Solid	8015 NM	
880-6476-24	C-24	Total/NA	Solid	8015 NM	
880-6476-25	C-25	Total/NA	Solid	8015 NM	
880-6476-26	C-26	Total/NA	Solid	8015 NM	
880-6476-27	C-27	Total/NA	Solid	8015 NM	
880-6476-28	C-28	Total/NA	Solid	8015 NM	
880-6476-29	C-29	Total/NA	Solid	8015 NM	
880-6476-30	C-30	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 8480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-1	C-1	Soluble	Solid	DI Leach	
880-6476-2	C-2	Soluble	Solid	DI Leach	
880-6476-3	C-3	Soluble	Solid	DI Leach	
880-6476-4	C-4	Soluble	Solid	DI Leach	
880-6476-5	C-5	Soluble	Solid	DI Leach	
880-6476-6	C-6	Soluble	Solid	DI Leach	
880-6476-7	C-7	Soluble	Solid	DI Leach	
880-6476-8	C-8	Soluble	Solid	DI Leach	
880-6476-9	C-9	Soluble	Solid	DI Leach	
880-6476-10	C-10	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

HPLC/IC (Continued)

Leach Batch: 8480 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-11	C-11	Soluble	Solid	DI Leach	
880-6476-12	C-12	Soluble	Solid	DI Leach	
880-6476-13	C-13	Soluble	Solid	DI Leach	
880-6476-14	C-14	Soluble	Solid	DI Leach	
MB 880-8480/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8480/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8480/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6476-5 MS	C-5	Soluble	Solid	DI Leach	
880-6476-5 MSD	C-5	Soluble	Solid	DI Leach	

Leach Batch: 8481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-15	C-15	Soluble	Solid	DI Leach	
880-6476-16	C-16	Soluble	Solid	DI Leach	
880-6476-17	C-17	Soluble	Solid	DI Leach	
880-6476-18	C-18	Soluble	Solid	DI Leach	
880-6476-19	C-19	Soluble	Solid	DI Leach	
880-6476-20	C-20	Soluble	Solid	DI Leach	
880-6476-21	C-21	Soluble	Solid	DI Leach	
880-6476-22	C-22	Soluble	Solid	DI Leach	
880-6476-23	C-23	Soluble	Solid	DI Leach	
880-6476-24	C-24	Soluble	Solid	DI Leach	
880-6476-25	C-25	Soluble	Solid	DI Leach	
880-6476-26	C-26	Soluble	Solid	DI Leach	
880-6476-27	C-27	Soluble	Solid	DI Leach	
880-6476-28	C-28	Soluble	Solid	DI Leach	
880-6476-29	C-29	Soluble	Solid	DI Leach	
880-6476-30	C-30	Soluble	Solid	DI Leach	
MB 880-8481/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8481/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8481/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6476-24 MS	C-24	Soluble	Solid	DI Leach	
880-6476-24 MSD	C-24	Soluble	Solid	DI Leach	

Analysis Batch: 8749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-1	C-1	Soluble	Solid	300.0	8480
880-6476-2	C-2	Soluble	Solid	300.0	8480
880-6476-3	C-3	Soluble	Solid	300.0	8480
880-6476-4	C-4	Soluble	Solid	300.0	8480
880-6476-5	C-5	Soluble	Solid	300.0	8480
880-6476-6	C-6	Soluble	Solid	300.0	8480
880-6476-7	C-7	Soluble	Solid	300.0	8480
880-6476-8	C-8	Soluble	Solid	300.0	8480
880-6476-9	C-9	Soluble	Solid	300.0	8480
880-6476-10	C-10	Soluble	Solid	300.0	8480
880-6476-11	C-11	Soluble	Solid	300.0	8480
880-6476-12	C-12	Soluble	Solid	300.0	8480
880-6476-13	C-13	Soluble	Solid	300.0	8480
880-6476-14	C-14	Soluble	Solid	300.0	8480
MB 880-8480/1-A	Method Blank	Soluble	Solid	300.0	8480

Eurofins Xenco, Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 8749 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-8480/2-A	Lab Control Sample	Soluble	Solid	300.0	8480
LCSD 880-8480/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8480
880-6476-5 MS	C-5	Soluble	Solid	300.0	8480
880-6476-5 MSD	C-5	Soluble	Solid	300.0	8480

Analysis Batch: 8750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6476-15	C-15	Soluble	Solid	300.0	8481
880-6476-16	C-16	Soluble	Solid	300.0	8481
880-6476-17	C-17	Soluble	Solid	300.0	8481
880-6476-18	C-18	Soluble	Solid	300.0	8481
880-6476-19	C-19	Soluble	Solid	300.0	8481
880-6476-20	C-20	Soluble	Solid	300.0	8481
880-6476-21	C-21	Soluble	Solid	300.0	8481
880-6476-22	C-22	Soluble	Solid	300.0	8481
880-6476-23	C-23	Soluble	Solid	300.0	8481
880-6476-24	C-24	Soluble	Solid	300.0	8481
880-6476-25	C-25	Soluble	Solid	300.0	8481
880-6476-26	C-26	Soluble	Solid	300.0	8481
880-6476-27	C-27	Soluble	Solid	300.0	8481
880-6476-28	C-28	Soluble	Solid	300.0	8481
880-6476-29	C-29	Soluble	Solid	300.0	8481
880-6476-30	C-30	Soluble	Solid	300.0	8481
MB 880-8481/1-A	Method Blank	Soluble	Solid	300.0	8481
LCS 880-8481/2-A	Lab Control Sample	Soluble	Solid	300.0	8481
LCSD 880-8481/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8481
880-6476-24 MS	C-24	Soluble	Solid	300.0	8481
880-6476-24 MSD	C-24	Soluble	Solid	300.0	8481

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-1

Lab Sample ID: 880-6476-1

Date Collected: 09/24/21 08:40

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8508	09/28/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	09/30/21 17:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 15:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 18:09	CH	XEN MID

Client Sample ID: C-2

Lab Sample ID: 880-6476-2

Date Collected: 09/24/21 08:41

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8508	09/28/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	09/30/21 17:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 16:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 18:16	CH	XEN MID

Client Sample ID: C-3

Lab Sample ID: 880-6476-3

Date Collected: 09/24/21 08:42

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8508	09/28/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	09/30/21 18:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 16:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 18:22	CH	XEN MID

Client Sample ID: C-4

Lab Sample ID: 880-6476-4

Date Collected: 09/24/21 08:43

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8508	09/28/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	09/30/21 18:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-4

Lab Sample ID: 880-6476-4

Date Collected: 09/24/21 08:43

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 17:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 18:29	CH	XEN MID

Client Sample ID: C-5

Lab Sample ID: 880-6476-5

Date Collected: 09/24/21 08:44

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8537	09/29/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	09/30/21 18:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 17:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 18:35	CH	XEN MID

Client Sample ID: C-6

Lab Sample ID: 880-6476-6

Date Collected: 09/24/21 08:45

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8508	09/28/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	09/30/21 23:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 17:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 18:54	CH	XEN MID

Client Sample ID: C-7

Lab Sample ID: 880-6476-7

Date Collected: 09/24/21 08:46

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8537	09/29/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	09/30/21 18:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 18:17	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-7

Lab Sample ID: 880-6476-7

Date Collected: 09/24/21 08:46

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 19:01	CH	XEN MID

Client Sample ID: C-8

Lab Sample ID: 880-6476-8

Date Collected: 09/24/21 08:47

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8508	09/28/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	09/30/21 23:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 18:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 19:20	CH	XEN MID

Client Sample ID: C-9

Lab Sample ID: 880-6476-9

Date Collected: 09/24/21 08:48

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8508	09/28/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	09/30/21 23:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 19:00	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 19:27	CH	XEN MID

Client Sample ID: C-10

Lab Sample ID: 880-6476-10

Date Collected: 09/24/21 08:49

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8508	09/28/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 00:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 19:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 19:33	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-11

Lab Sample ID: 880-6476-11

Date Collected: 09/24/21 08:50

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8537	09/29/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	09/30/21 19:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8435	09/27/21 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8429	09/27/21 19:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 19:40	CH	XEN MID

Client Sample ID: C-12

Lab Sample ID: 880-6476-12

Date Collected: 09/24/21 08:51

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8508	09/28/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 00:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 15:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 19:46	CH	XEN MID

Client Sample ID: C-13

Lab Sample ID: 880-6476-13

Date Collected: 09/24/21 08:52

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8508	09/28/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 01:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 15:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 19:52	CH	XEN MID

Client Sample ID: C-14

Lab Sample ID: 880-6476-14

Date Collected: 09/24/21 08:53

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8537	09/29/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8636	09/30/21 19:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8646	09/30/21 11:10	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-14

Lab Sample ID: 880-6476-14

Date Collected: 09/24/21 08:53

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 15:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8480	09/27/21 16:11	CH	XEN MID
Soluble	Analysis	300.0		1			8749	10/01/21 19:59	CH	XEN MID

Client Sample ID: C-15

Lab Sample ID: 880-6476-15

Date Collected: 09/24/21 08:54

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8508	09/28/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 01:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 16:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/01/21 22:19	CH	XEN MID

Client Sample ID: C-16

Lab Sample ID: 880-6476-16

Date Collected: 09/24/21 08:55

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8508	09/28/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8644	10/01/21 02:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 16:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/01/21 22:25	CH	XEN MID

Client Sample ID: C-17

Lab Sample ID: 880-6476-17

Date Collected: 09/24/21 08:56

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8515	09/29/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/29/21 17:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 17:12	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-17

Lab Sample ID: 880-6476-17

Date Collected: 09/24/21 08:56

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/01/21 22:31	CH	XEN MID

Client Sample ID: C-18

Lab Sample ID: 880-6476-18

Date Collected: 09/24/21 08:57

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8515	09/29/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/29/21 17:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 17:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/01/21 22:36	CH	XEN MID

Client Sample ID: C-19

Lab Sample ID: 880-6476-19

Date Collected: 09/24/21 08:58

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8515	09/29/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/29/21 18:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 17:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/01/21 22:53	CH	XEN MID

Client Sample ID: C-20

Lab Sample ID: 880-6476-20

Date Collected: 09/24/21 08:59

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8515	09/29/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/29/21 18:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 18:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/01/21 22:59	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-21

Lab Sample ID: 880-6476-21

Date Collected: 09/24/21 09:00

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8516	09/28/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/29/21 23:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 18:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/01/21 23:04	CH	XEN MID

Client Sample ID: C-22

Lab Sample ID: 880-6476-22

Date Collected: 09/24/21 09:01

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8516	09/28/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/30/21 00:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 19:00	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/01/21 23:10	CH	XEN MID

Client Sample ID: C-23

Lab Sample ID: 880-6476-23

Date Collected: 09/24/21 09:02

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8516	09/28/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/30/21 00:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 19:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/01/21 23:15	CH	XEN MID

Client Sample ID: C-24

Lab Sample ID: 880-6476-24

Date Collected: 09/24/21 09:03

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8516	09/28/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/30/21 00:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-24

Lab Sample ID: 880-6476-24

Date Collected: 09/24/21 09:03

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8426	09/27/21 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8427	09/27/21 19:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/01/21 23:21	CH	XEN MID

Client Sample ID: C-25

Lab Sample ID: 880-6476-25

Date Collected: 09/24/21 09:04

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8516	09/28/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/30/21 01:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8511	09/28/21 11:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8567	09/29/21 17:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/01/21 23:38	CH	XEN MID

Client Sample ID: C-26

Lab Sample ID: 880-6476-26

Date Collected: 09/24/21 09:05

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8516	09/28/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/30/21 01:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8511	09/28/21 11:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8567	09/29/21 17:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/01/21 23:43	CH	XEN MID

Client Sample ID: C-27

Lab Sample ID: 880-6476-27

Date Collected: 09/24/21 09:06

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8516	09/28/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/30/21 01:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8511	09/28/21 11:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8567	09/29/21 18:12	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Client Sample ID: C-27

Lab Sample ID: 880-6476-27

Date Collected: 09/24/21 09:06

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/02/21 00:01	CH	XEN MID

Client Sample ID: C-28

Lab Sample ID: 880-6476-28

Date Collected: 09/24/21 09:07

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8516	09/28/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/30/21 02:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8511	09/28/21 11:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8567	09/29/21 18:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/02/21 00:06	CH	XEN MID

Client Sample ID: C-29

Lab Sample ID: 880-6476-29

Date Collected: 09/24/21 09:08

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8516	09/28/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/30/21 02:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8511	09/28/21 11:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8567	09/29/21 18:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/02/21 00:12	CH	XEN MID

Client Sample ID: C-30

Lab Sample ID: 880-6476-30

Date Collected: 09/24/21 09:09

Matrix: Solid

Date Received: 09/24/21 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8516	09/28/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8570	09/30/21 02:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8862	10/04/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			8693	09/30/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8511	09/28/21 11:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8567	09/29/21 19:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8481	09/27/21 16:13	CH	XEN MID
Soluble	Analysis	300.0		1			8750	10/02/21 00:17	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio Backfill

Job ID: 880-6476-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6476-1	C-1	Solid	09/24/21 08:40	09/24/21 16:08
880-6476-2	C-2	Solid	09/24/21 08:41	09/24/21 16:08
880-6476-3	C-3	Solid	09/24/21 08:42	09/24/21 16:08
880-6476-4	C-4	Solid	09/24/21 08:43	09/24/21 16:08
880-6476-5	C-5	Solid	09/24/21 08:44	09/24/21 16:08
880-6476-6	C-6	Solid	09/24/21 08:45	09/24/21 16:08
880-6476-7	C-7	Solid	09/24/21 08:46	09/24/21 16:08
880-6476-8	C-8	Solid	09/24/21 08:47	09/24/21 16:08
880-6476-9	C-9	Solid	09/24/21 08:48	09/24/21 16:08
880-6476-10	C-10	Solid	09/24/21 08:49	09/24/21 16:08
880-6476-11	C-11	Solid	09/24/21 08:50	09/24/21 16:08
880-6476-12	C-12	Solid	09/24/21 08:51	09/24/21 16:08
880-6476-13	C-13	Solid	09/24/21 08:52	09/24/21 16:08
880-6476-14	C-14	Solid	09/24/21 08:53	09/24/21 16:08
880-6476-15	C-15	Solid	09/24/21 08:54	09/24/21 16:08
880-6476-16	C-16	Solid	09/24/21 08:55	09/24/21 16:08
880-6476-17	C-17	Solid	09/24/21 08:56	09/24/21 16:08
880-6476-18	C-18	Solid	09/24/21 08:57	09/24/21 16:08
880-6476-19	C-19	Solid	09/24/21 08:58	09/24/21 16:08
880-6476-20	C-20	Solid	09/24/21 08:59	09/24/21 16:08
880-6476-21	C-21	Solid	09/24/21 09:00	09/24/21 16:08
880-6476-22	C-22	Solid	09/24/21 09:01	09/24/21 16:08
880-6476-23	C-23	Solid	09/24/21 09:02	09/24/21 16:08
880-6476-24	C-24	Solid	09/24/21 09:03	09/24/21 16:08
880-6476-25	C-25	Solid	09/24/21 09:04	09/24/21 16:08
880-6476-26	C-26	Solid	09/24/21 09:05	09/24/21 16:08
880-6476-27	C-27	Solid	09/24/21 09:06	09/24/21 16:08
880-6476-28	C-28	Solid	09/24/21 09:07	09/24/21 16:08
880-6476-29	C-29	Solid	09/24/21 09:08	09/24/21 16:08
880-6476-30	C-30	Solid	09/24/21 09:09	09/24/21 16:08

[illegible]



Arson &
Associates, Inc.
Environmental Consultants

507 N Marrenfeld, Ste 202
Midland TX 79701
432-687-0901

Data Reported to

DATE 9/24/21 PAGE 2 OF 2
PO# 8810-6476 LAB WORK ORDER# 8810-6476
PROJECT LOCATION OR NAME Palmer Backfill
LAI PROJECT # 21-095-02 COLLECTOR TP

CHAIN-OF-CUSTODY

No. 2214

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
						HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			UNPRESERVED
C-16		9/24/21	0855	S								
C-17			0856									
C-18			0857									
C-19			0858									
C-20			0859									
C-21			0900									
C-22			0901									
C-23			0902									
C-24			0903									
C-25			0904									
C-26			0905									
C-27			0906									
C-28			0907									
C-29			0908									
C-30			0909									
TOTAL 15												

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-6476-1

SDG Number: 21-0105-02

Login Number: 6476

List Number: 1

Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1383-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
10/18/2021 5:15:31 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Laboratory Job ID: 890-1383-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Job ID: 890-1383-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1383-1

Comments

No additional comments.

Receipt

The samples were received on 10/8/2021 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.4° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9452 and analytical batch 880-9522 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9371 and analytical batch 880-9354 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B NM: The final continuing calibration verification was biased high in the >C12-C28 hydrocarbon range due to carryover from a previous high detect sample. The data was qualified and reported.
(CCV 880-9354/57)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-1

Lab Sample ID: 890-1383-1

Date Collected: 10/08/21 08:00

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 13:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 13:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 13:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:42	10/17/21 13:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 13:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:42	10/17/21 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/14/21 10:42	10/17/21 13:02	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/14/21 10:42	10/17/21 13:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 13:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 13:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	10/14/21 09:36	10/14/21 13:51	1
o-Terphenyl	103		70 - 130	10/14/21 09:36	10/14/21 13:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		4.97	mg/Kg			10/15/21 19:36	1

Client Sample ID: CAL-2

Lab Sample ID: 890-1383-2

Date Collected: 10/08/21 08:01

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 13:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 13:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 13:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:42	10/17/21 13:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 13:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:42	10/17/21 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/14/21 10:42	10/17/21 13:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/14/21 10:42	10/17/21 13:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-2

Lab Sample ID: 890-1383-2

Date Collected: 10/08/21 08:01

Matrix: Solid

Date Received: 10/08/21 12:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 14:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 14:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/14/21 09:36	10/14/21 14:53	1
o-Terphenyl	106		70 - 130			10/14/21 09:36	10/14/21 14:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.1		4.96	mg/Kg			10/15/21 19:41	1

Client Sample ID: CAL-3

Lab Sample ID: 890-1383-3

Date Collected: 10/08/21 08:02

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 13:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 13:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 13:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:42	10/17/21 13:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 13:43	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:42	10/17/21 13:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			10/14/21 10:42	10/17/21 13:43	1
1,4-Difluorobenzene (Surr)	85		70 - 130			10/14/21 10:42	10/17/21 13:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 15:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 15:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-3

Lab Sample ID: 890-1383-3

Date Collected: 10/08/21 08:02

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 15:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/14/21 09:36	10/14/21 15:14	1
o-Terphenyl	99		70 - 130			10/14/21 09:36	10/14/21 15:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.2		4.95	mg/Kg			10/15/21 19:47	1

Client Sample ID: CAL-4

Lab Sample ID: 890-1383-4

Date Collected: 10/08/21 08:03

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 14:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 14:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 14:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:42	10/17/21 14:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 14:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:42	10/17/21 14:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			10/14/21 10:42	10/17/21 14:04	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/14/21 10:42	10/17/21 14:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 15:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 15:34	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			10/14/21 09:36	10/14/21 15:34	1
o-Terphenyl	100		70 - 130			10/14/21 09:36	10/14/21 15:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.5		5.04	mg/Kg			10/15/21 20:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-5

Lab Sample ID: 890-1383-5

Date Collected: 10/08/21 08:04

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 14:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 14:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 14:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:42	10/17/21 14:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 14:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:42	10/17/21 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	10/14/21 10:42	10/17/21 14:24	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/14/21 10:42	10/17/21 14:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 15:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 15:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	10/14/21 09:36	10/14/21 15:55	1
o-Terphenyl	105		70 - 130	10/14/21 09:36	10/14/21 15:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.1		4.95	mg/Kg			10/15/21 20:10	1

Client Sample ID: CAL-6

Lab Sample ID: 890-1383-6

Date Collected: 10/08/21 08:05

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 14:44	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 14:44	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 14:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 10:42	10/17/21 14:44	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 14:44	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 10:42	10/17/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	10/14/21 10:42	10/17/21 14:44	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/14/21 10:42	10/17/21 14:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-6

Lab Sample ID: 890-1383-6

Date Collected: 10/08/21 08:05

Matrix: Solid

Date Received: 10/08/21 12:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 16:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 16:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 16:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			10/14/21 09:36	10/14/21 16:15	1
o-Terphenyl	109		70 - 130			10/14/21 09:36	10/14/21 16:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.4		4.98	mg/Kg			10/15/21 20:15	1

Client Sample ID: CAL-7

Lab Sample ID: 890-1383-7

Date Collected: 10/08/21 08:06

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 15:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 15:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 15:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:42	10/17/21 15:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 15:05	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:42	10/17/21 15:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			10/14/21 10:42	10/17/21 15:05	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/14/21 10:42	10/17/21 15:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 16:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 16:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-7

Lab Sample ID: 890-1383-7

Date Collected: 10/08/21 08:06

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 16:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			10/14/21 09:36	10/14/21 16:36	1
o-Terphenyl	105		70 - 130			10/14/21 09:36	10/14/21 16:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.8		5.00	mg/Kg			10/15/21 20:21	1

Client Sample ID: CAL-8

Lab Sample ID: 890-1383-8

Date Collected: 10/08/21 08:07

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 15:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 15:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 15:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:42	10/17/21 15:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 15:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:42	10/17/21 15:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/14/21 10:42	10/17/21 15:25	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/14/21 10:42	10/17/21 15:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 16:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 16:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 16:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			10/14/21 09:36	10/14/21 16:56	1
o-Terphenyl	107		70 - 130			10/14/21 09:36	10/14/21 16:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		5.02	mg/Kg			10/15/21 20:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-9

Lab Sample ID: 890-1383-9

Date Collected: 10/08/21 08:08

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 15:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 15:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 15:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:42	10/17/21 15:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 15:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:42	10/17/21 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/14/21 10:42	10/17/21 15:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/14/21 10:42	10/17/21 15:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 17:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 17:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	10/14/21 09:36	10/14/21 17:17	1
o-Terphenyl	105		70 - 130	10/14/21 09:36	10/14/21 17:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.1		5.00	mg/Kg			10/15/21 20:32	1

Client Sample ID: CAL-10

Lab Sample ID: 890-1383-10

Date Collected: 10/08/21 08:09

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 16:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 16:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 16:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:42	10/17/21 16:06	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 16:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:42	10/17/21 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/14/21 10:42	10/17/21 16:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/14/21 10:42	10/17/21 16:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-10

Lab Sample ID: 890-1383-10

Date Collected: 10/08/21 08:09

Matrix: Solid

Date Received: 10/08/21 12:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 17:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 17:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			10/14/21 09:36	10/14/21 17:37	1
o-Terphenyl	112		70 - 130			10/14/21 09:36	10/14/21 17:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.6		4.98	mg/Kg			10/15/21 20:49	1

Client Sample ID: CAL-11

Lab Sample ID: 890-1383-11

Date Collected: 10/08/21 08:10

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 17:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 17:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 17:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:42	10/17/21 17:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 17:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:42	10/17/21 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			10/14/21 10:42	10/17/21 17:55	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/14/21 10:42	10/17/21 17:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 18:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 18:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-11

Lab Sample ID: 890-1383-11

Date Collected: 10/08/21 08:10

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 18:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			10/14/21 09:36	10/14/21 18:19	1
o-Terphenyl	104		70 - 130			10/14/21 09:36	10/14/21 18:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.2		5.00	mg/Kg			10/15/21 20:54	1

Client Sample ID: CAL-12

Lab Sample ID: 890-1383-12

Date Collected: 10/08/21 08:11

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 18:15	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 18:15	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 18:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:42	10/17/21 18:15	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 18:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:42	10/17/21 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			10/14/21 10:42	10/17/21 18:15	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/14/21 10:42	10/17/21 18:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 18:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 18:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 18:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			10/14/21 09:36	10/14/21 18:39	1
o-Terphenyl	117		70 - 130			10/14/21 09:36	10/14/21 18:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.7		4.95	mg/Kg			10/15/21 21:11	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-13

Lab Sample ID: 890-1383-13

Date Collected: 10/08/21 08:12

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 18:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 18:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 18:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:42	10/17/21 18:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 18:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:42	10/17/21 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/14/21 10:42	10/17/21 18:36	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/14/21 10:42	10/17/21 18:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 18:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 18:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	10/14/21 09:36	10/14/21 18:59	1
o-Terphenyl	116		70 - 130	10/14/21 09:36	10/14/21 18:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.95		4.95	mg/Kg			10/15/21 21:17	1

Client Sample ID: CAL-14

Lab Sample ID: 890-1383-14

Date Collected: 10/08/21 08:13

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 18:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 18:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 18:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:42	10/17/21 18:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:42	10/17/21 18:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:42	10/17/21 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/14/21 10:42	10/17/21 18:56	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/14/21 10:42	10/17/21 18:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-14

Lab Sample ID: 890-1383-14

Date Collected: 10/08/21 08:13

Matrix: Solid

Date Received: 10/08/21 12:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 19:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 19:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 09:36	10/14/21 19:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/14/21 09:36	10/14/21 19:20	1
o-Terphenyl	113		70 - 130			10/14/21 09:36	10/14/21 19:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.45		5.02	mg/Kg			10/15/21 21:22	1

Client Sample ID: CAL-15

Lab Sample ID: 890-1383-15

Date Collected: 10/08/21 08:14

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 19:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 19:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 19:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/14/21 10:42	10/17/21 19:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 19:17	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/14/21 10:42	10/17/21 19:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/14/21 10:42	10/17/21 19:17	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/14/21 10:42	10/17/21 19:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 19:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 19:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-15

Lab Sample ID: 890-1383-15

Date Collected: 10/08/21 08:14

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 19:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			10/14/21 09:36	10/14/21 19:41	1
o-Terphenyl	114		70 - 130			10/14/21 09:36	10/14/21 19:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.6		4.99	mg/Kg			10/15/21 21:28	1

Client Sample ID: CAL-16

Lab Sample ID: 890-1383-16

Date Collected: 10/08/21 08:15

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 19:37	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 19:37	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 19:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:42	10/17/21 19:37	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 19:37	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:42	10/17/21 19:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			10/14/21 10:42	10/17/21 19:37	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/14/21 10:42	10/17/21 19:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 20:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 20:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 09:36	10/14/21 20:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/14/21 09:36	10/14/21 20:02	1
o-Terphenyl	118		70 - 130			10/14/21 09:36	10/14/21 20:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.9		4.98	mg/Kg			10/15/21 21:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-17

Lab Sample ID: 890-1383-17

Date Collected: 10/08/21 08:16

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 19:58	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 19:58	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 19:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/14/21 10:42	10/17/21 19:58	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 19:58	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/14/21 10:42	10/17/21 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/14/21 10:42	10/17/21 19:58	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/14/21 10:42	10/17/21 19:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 11:42	10/14/21 23:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 11:42	10/14/21 23:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 11:42	10/14/21 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	10/14/21 11:42	10/14/21 23:36	1
o-Terphenyl	91		70 - 130	10/14/21 11:42	10/14/21 23:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.5		4.95	mg/Kg			10/15/21 21:39	1

Client Sample ID: CAL-18

Lab Sample ID: 890-1383-18

Date Collected: 10/08/21 08:17

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 20:18	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 20:18	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 20:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 10:42	10/17/21 20:18	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 20:18	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 10:42	10/17/21 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	10/14/21 10:42	10/17/21 20:18	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/14/21 10:42	10/17/21 20:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-18

Lab Sample ID: 890-1383-18

Date Collected: 10/08/21 08:17

Matrix: Solid

Date Received: 10/08/21 12:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 11:42	10/15/21 00:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 11:42	10/15/21 00:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 11:42	10/15/21 00:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/14/21 11:42	10/15/21 00:40	1
o-Terphenyl	98		70 - 130			10/14/21 11:42	10/15/21 00:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.9		4.96	mg/Kg			10/15/21 21:45	1

Client Sample ID: CAL-19

Lab Sample ID: 890-1383-19

Date Collected: 10/08/21 08:18

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 20:38	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 20:38	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 20:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/14/21 10:42	10/17/21 20:38	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/14/21 10:42	10/17/21 20:38	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/14/21 10:42	10/17/21 20:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			10/14/21 10:42	10/17/21 20:38	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/14/21 10:42	10/17/21 20:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 11:42	10/15/21 01:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 11:42	10/15/21 01:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-19

Lab Sample ID: 890-1383-19

Date Collected: 10/08/21 08:18

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 11:42	10/15/21 01:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			10/14/21 11:42	10/15/21 01:01	1
o-Terphenyl	97		70 - 130			10/14/21 11:42	10/15/21 01:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.1		4.95	mg/Kg			10/16/21 08:31	1

Client Sample ID: CAL-20

Lab Sample ID: 890-1383-20

Date Collected: 10/08/21 08:19

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 20:59	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 20:59	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 20:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:42	10/17/21 20:59	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:42	10/17/21 20:59	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:42	10/17/21 20:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			10/14/21 10:42	10/17/21 20:59	1
1,4-Difluorobenzene (Surr)	98		70 - 130			10/14/21 10:42	10/17/21 20:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/14/21 11:42	10/15/21 01:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/14/21 11:42	10/15/21 01:22	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 11:42	10/15/21 01:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			10/14/21 11:42	10/15/21 01:22	1
o-Terphenyl	102		70 - 130			10/14/21 11:42	10/15/21 01:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1		4.95	mg/Kg			10/16/21 08:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-21

Lab Sample ID: 890-1383-21

Date Collected: 10/08/21 08:20

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1 F2	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:57	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:57	1
Ethylbenzene	<0.00200	U F1 F2	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:57	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401	mg/Kg		10/14/21 10:45	10/16/21 13:57	1
o-Xylene	<0.00200	U F1 F2	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:57	1
Xylenes, Total	<0.00401	U F1	0.00401	mg/Kg		10/14/21 10:45	10/16/21 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/14/21 10:45	10/16/21 13:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/14/21 10:45	10/16/21 13:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0	mg/Kg		10/14/21 08:43	10/14/21 21:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0	mg/Kg		10/14/21 08:43	10/14/21 21:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 08:43	10/14/21 21:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	10/14/21 08:43	10/14/21 21:28	1
o-Terphenyl	87		70 - 130	10/14/21 08:43	10/14/21 21:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.1		5.02	mg/Kg			10/16/21 08:46	1

Client Sample ID: CAL-22

Lab Sample ID: 890-1383-22

Date Collected: 10/08/21 08:21

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 14:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 14:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 14:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:45	10/16/21 14:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 14:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:45	10/16/21 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/14/21 10:45	10/16/21 14:17	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/14/21 10:45	10/16/21 14:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-22

Lab Sample ID: 890-1383-22

Date Collected: 10/08/21 08:21

Matrix: Solid

Date Received: 10/08/21 12:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		10/14/21 08:43	10/14/21 21:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9	mg/Kg		10/14/21 08:43	10/14/21 21:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 08:43	10/14/21 21:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			10/14/21 08:43	10/14/21 21:49	1
o-Terphenyl	96		70 - 130			10/14/21 08:43	10/14/21 21:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.2		4.99	mg/Kg			10/16/21 08:53	1

Client Sample ID: CAL-23

Lab Sample ID: 890-1383-23

Date Collected: 10/08/21 08:22

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00249	U	0.00249	mg/Kg		10/14/21 10:45	10/16/21 14:38	1
Toluene	<0.00249	U	0.00249	mg/Kg		10/14/21 10:45	10/16/21 14:38	1
Ethylbenzene	<0.00249	U	0.00249	mg/Kg		10/14/21 10:45	10/16/21 14:38	1
m-Xylene & p-Xylene	<0.00498	U	0.00498	mg/Kg		10/14/21 10:45	10/16/21 14:38	1
o-Xylene	<0.00249	U	0.00249	mg/Kg		10/14/21 10:45	10/16/21 14:38	1
Xylenes, Total	<0.00498	U	0.00498	mg/Kg		10/14/21 10:45	10/16/21 14:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			10/14/21 10:45	10/16/21 14:38	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/14/21 10:45	10/16/21 14:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00498	U	0.00498	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/13/21 11:33	10/14/21 04:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/13/21 11:33	10/14/21 04:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-23

Lab Sample ID: 890-1383-23

Date Collected: 10/08/21 08:22

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/13/21 11:33	10/14/21 04:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/13/21 11:33	10/14/21 04:17	1
o-Terphenyl	121		70 - 130			10/13/21 11:33	10/14/21 04:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.0		4.98	mg/Kg			10/16/21 09:00	1

Client Sample ID: CAL-24

Lab Sample ID: 890-1383-24

Date Collected: 10/08/21 08:23

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:45	10/16/21 14:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:45	10/16/21 14:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:45	10/16/21 14:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/14/21 10:45	10/16/21 14:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/14/21 10:45	10/16/21 14:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/14/21 10:45	10/16/21 14:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/14/21 10:45	10/16/21 14:58	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/14/21 10:45	10/16/21 14:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/13/21 11:33	10/14/21 04:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/13/21 11:33	10/14/21 04:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/13/21 11:33	10/14/21 04:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/13/21 11:33	10/14/21 04:37	1
o-Terphenyl	110		70 - 130			10/13/21 11:33	10/14/21 04:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.3		4.95	mg/Kg			10/16/21 09:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-25

Lab Sample ID: 890-1383-25

Date Collected: 10/08/21 08:24

Matrix: Solid

Date Received: 10/08/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 15:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 15:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 15:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/21 10:45	10/16/21 15:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 15:18	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/21 10:45	10/16/21 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	10/14/21 10:45	10/16/21 15:18	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/14/21 10:45	10/16/21 15:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/18/21 15:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/14/21 16:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/13/21 11:33	10/14/21 04:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/13/21 11:33	10/14/21 04:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/13/21 11:33	10/14/21 04:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	10/13/21 11:33	10/14/21 04:57	1
o-Terphenyl	120		70 - 130	10/13/21 11:33	10/14/21 04:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.2		4.96	mg/Kg			10/16/21 09:14	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1383-1	CAL-1	90	101
890-1383-1 MS	CAL-1	88	99
890-1383-1 MSD	CAL-1	87	101
890-1383-2	CAL-2	92	105
890-1383-3	CAL-3	111	85
890-1383-4	CAL-4	90	103
890-1383-5	CAL-5	91	99
890-1383-6	CAL-6	91	101
890-1383-7	CAL-7	93	109
890-1383-8	CAL-8	98	105
890-1383-9	CAL-9	88	103
890-1383-10	CAL-10	108	94
890-1383-11	CAL-11	86	104
890-1383-12	CAL-12	102	105
890-1383-13	CAL-13	92	103
890-1383-14	CAL-14	93	102
890-1383-15	CAL-15	96	102
890-1383-16	CAL-16	93	103
890-1383-17	CAL-17	98	100
890-1383-18	CAL-18	91	103
890-1383-19	CAL-19	101	105
890-1383-20	CAL-20	85	98
890-1383-21	CAL-21	98	102
890-1383-21 MS	CAL-21	106	115
890-1383-21 MSD	CAL-21	231 S1+	90
890-1383-22	CAL-22	92	106
890-1383-23	CAL-23	93	102
890-1383-24	CAL-24	95	104
890-1383-25	CAL-25	71	88
LCS 880-9450/1-A	Lab Control Sample	89	107
LCS 880-9452/1-A	Lab Control Sample	89	107
LCSD 880-9450/2-A	Lab Control Sample Dup	86	101
LCSD 880-9452/2-A	Lab Control Sample Dup	88	100
MB 880-9449/5-A	Method Blank	97	102
MB 880-9450/5-A	Method Blank	102	109
MB 880-9452/5-A	Method Blank	101	109
MB 880-9532/5-A	Method Blank	102	107

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-6945-A-171-B MS	Matrix Spike	79	80
880-6945-A-171-C MSD	Matrix Spike Duplicate	77	75

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 890-1383-1

Project/Site: Palmio AST

SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-1370-A-1-E MS	Matrix Spike	115	115
890-1370-A-1-F MSD	Matrix Spike Duplicate	112	111
890-1383-1	CAL-1	93	103
890-1383-1 MS	CAL-1	95	93
890-1383-1 MSD	CAL-1	98	96
890-1383-2	CAL-2	98	106
890-1383-3	CAL-3	93	99
890-1383-4	CAL-4	90	100
890-1383-5	CAL-5	95	105
890-1383-6	CAL-6	99	109
890-1383-7	CAL-7	94	105
890-1383-8	CAL-8	97	107
890-1383-9	CAL-9	95	105
890-1383-10	CAL-10	100	112
890-1383-11	CAL-11	96	104
890-1383-12	CAL-12	106	117
890-1383-13	CAL-13	106	116
890-1383-14	CAL-14	105	113
890-1383-15	CAL-15	103	114
890-1383-16	CAL-16	105	118
890-1383-17	CAL-17	87	91
890-1383-17 MS	CAL-17	89	87
890-1383-17 MSD	CAL-17	92	90
890-1383-18	CAL-18	93	98
890-1383-19	CAL-19	86	97
890-1383-20	CAL-20	97	102
890-1383-21	CAL-21	87	87
890-1383-22	CAL-22	85	96
890-1383-23	CAL-23	110	121
890-1383-24	CAL-24	104	110
890-1383-25	CAL-25	110	120
LCS 880-9371/2-A	Lab Control Sample	81	82
LCS 880-9433/2-A	Lab Control Sample	75	75
LCS 880-9440/2-A	Lab Control Sample	81	83
LCS 880-9455/2-A	Lab Control Sample	80	85
LCSD 880-9371/3-A	Lab Control Sample Dup	86	86
LCSD 880-9433/3-A	Lab Control Sample Dup	79	84
LCSD 880-9440/3-A	Lab Control Sample Dup	78	77
LCSD 880-9455/3-A	Lab Control Sample Dup	76	81
MB 880-9371/1-A	Method Blank	107	123
MB 880-9433/1-A	Method Blank	83	90
MB 880-9440/1-A	Method Blank	84	87
MB 880-9455/1-A	Method Blank	84	93

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9449/5-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9449

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 01:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 01:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 01:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:32	10/17/21 01:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:32	10/17/21 01:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:32	10/17/21 01:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/14/21 10:32	10/17/21 01:01	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/14/21 10:32	10/17/21 01:01	1

Lab Sample ID: MB 880-9450/5-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9450

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 12:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 12:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 12:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:42	10/17/21 12:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:42	10/17/21 12:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:42	10/17/21 12:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/14/21 10:42	10/17/21 12:34	1
1,4-Difluorobenzene (Surr)	109		70 - 130	10/14/21 10:42	10/17/21 12:34	1

Lab Sample ID: LCS 880-9450/1-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1108		mg/Kg		111	70 - 130
Toluene	0.100	0.1143		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1160		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2266		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1184		mg/Kg		118	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-9450/2-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1111		mg/Kg		111	70 - 130	0	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-9450/2-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.1193		mg/Kg		119	70 - 130	4	35
Ethylbenzene	0.100	0.1147		mg/Kg		115	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2252		mg/Kg		113	70 - 130	1	35
o-Xylene	0.100	0.1177		mg/Kg		118	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-1383-1 MS

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: CAL-1

Prep Type: Total/NA

Prep Batch: 9450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0996	0.09717		mg/Kg		97	70 - 130
Toluene	<0.00199	U	0.0996	0.09451		mg/Kg		95	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09820		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1930		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1021		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-1383-1 MSD

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: CAL-1

Prep Type: Total/NA

Prep Batch: 9450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09353		mg/Kg		94	70 - 130	4	35
Toluene	<0.00199	U	0.0990	0.09125		mg/Kg		92	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.0990	0.09283		mg/Kg		94	70 - 130	6	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1824		mg/Kg		92	70 - 130	6	35
o-Xylene	<0.00199	U	0.0990	0.1013		mg/Kg		102	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-9452/5-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9452

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/14/21 10:45	10/16/21 13:28	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-9452/5-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9452

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/14/21 10:45	10/16/21 13:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/14/21 10:45	10/16/21 13:28	1
1,4-Difluorobenzene (Surr)	109		70 - 130	10/14/21 10:45	10/16/21 13:28	1

Lab Sample ID: LCS 880-9452/1-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1109		mg/Kg		111	70 - 130
Toluene	0.100	0.1159		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1131		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2200		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1155		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-9452/2-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9452

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1045		mg/Kg		105	70 - 130	6	35
Toluene	0.100	0.1099		mg/Kg		110	70 - 130	5	35
Ethylbenzene	0.100	0.1111		mg/Kg		111	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2172		mg/Kg		109	70 - 130	1	35
o-Xylene	0.100	0.1149		mg/Kg		115	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-1383-21 MS

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: CAL-21

Prep Type: Total/NA

Prep Batch: 9452

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1 F2	0.0990	0.04929	F1	mg/Kg		49	70 - 130
Toluene	<0.00200	U F1	0.0990	0.05318	F1	mg/Kg		54	70 - 130
Ethylbenzene	<0.00200	U F1 F2	0.0990	0.05533	F1	mg/Kg		55	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.198	0.1097	F1	mg/Kg		55	70 - 130
o-Xylene	<0.00200	U F1 F2	0.0990	0.07653		mg/Kg		76	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1383-21 MS

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: CAL-21

Prep Type: Total/NA

Prep Batch: 9452

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 890-1383-21 MSD

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: CAL-21

Prep Type: Total/NA

Prep Batch: 9452

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.100	0.01519	F1 F2	mg/Kg		15	70 - 130	106	35
Toluene	<0.00200	U F1	0.100	0.04473	F1	mg/Kg		45	70 - 130	17	35
Ethylbenzene	<0.00200	U F1 F2	0.100	0.02272	F1 F2	mg/Kg		22	70 - 130	84	35
m-Xylene & p-Xylene	<0.00401	U F1	0.201	0.1159	F1	mg/Kg		58	70 - 130	5	35
o-Xylene	<0.00200	U F1 F2	0.100	0.02061	F1 F2	mg/Kg		19	70 - 130	115	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	231	S1+	70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: MB 880-9532/5-A

Matrix: Solid

Analysis Batch: 9522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9532

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/15/21 13:57	10/16/21 01:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/15/21 13:57	10/16/21 01:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/15/21 13:57	10/16/21 01:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/15/21 13:57	10/16/21 01:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/15/21 13:57	10/16/21 01:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/15/21 13:57	10/16/21 01:24	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	102		70 - 130	10/15/21 13:57	10/16/21 01:24	1		
1,4-Difluorobenzene (Surr)	107		70 - 130	10/15/21 13:57	10/16/21 01:24	1		

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-9371/1-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9371

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/13/21 11:33	10/13/21 20:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/13/21 11:33	10/13/21 20:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/13/21 11:33	10/13/21 20:52	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-9371/1-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9371

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	10/13/21 11:33	10/13/21 20:52	1
o-Terphenyl	123		70 - 130	10/13/21 11:33	10/13/21 20:52	1

Lab Sample ID: LCS 880-9371/2-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9371

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1243		mg/Kg		124	70 - 130
Diesel Range Organics (Over C10-C28)	1000	848.4		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: LCSD 880-9371/3-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9371

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1252		mg/Kg		125	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	831.2		mg/Kg		83	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 890-1370-A-1-E MS

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9371

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1402	F1	mg/Kg		141	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1076		mg/Kg		106	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	115		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1370-A-1-F MSD

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9371

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	1334	F1	mg/Kg		133	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1043		mg/Kg		103	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	111		70 - 130								

Lab Sample ID: MB 880-9433/1-A

Matrix: Solid

Analysis Batch: 9426

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9433

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 08:43	10/14/21 12:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 08:43	10/14/21 12:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 08:43	10/14/21 12:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			10/14/21 08:43	10/14/21 12:54	1
o-Terphenyl	90		70 - 130			10/14/21 08:43	10/14/21 12:54	1

Lab Sample ID: LCS 880-9433/2-A

Matrix: Solid

Analysis Batch: 9426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	722.0		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	696.5		mg/Kg		70	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	75		70 - 130						
o-Terphenyl	75		70 - 130						

Lab Sample ID: LCSD 880-9433/3-A

Matrix: Solid

Analysis Batch: 9426

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9433

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	694.2	*-	mg/Kg		69	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	689.2	*-	mg/Kg		69	70 - 130	1	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-9433/3-A

Matrix: Solid

Analysis Batch: 9426

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9433

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 880-6945-A-171-B MS

Matrix: Solid

Analysis Batch: 9426

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	997	789.3		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *	997	741.6		mg/Kg		73	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	79		70 - 130						
o-Terphenyl	80		70 - 130						

Lab Sample ID: 880-6945-A-171-C MSD

Matrix: Solid

Analysis Batch: 9426

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9433

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	1000	754.8		mg/Kg		75	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U *	1000	722.9		mg/Kg		70	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	77		70 - 130								
o-Terphenyl	75		70 - 130								

Lab Sample ID: MB 880-9440/1-A

Matrix: Solid

Analysis Batch: 9422

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9440

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 12:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 12:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 09:36	10/14/21 12:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			10/14/21 09:36	10/14/21 12:49	1
o-Terphenyl	87		70 - 130			10/14/21 09:36	10/14/21 12:49	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-9440/2-A

Matrix: Solid

Analysis Batch: 9422

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9440

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	806.1		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	786.3		mg/Kg		79	70 - 130		
					</						

Lab Sample ID: LCSD 880-9440/3-A

Matrix: Solid

Analysis Batch: 9422

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9440

Top Bottom 312											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	897.4		mg/Kg		90	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	785.9		mg/Kg		79	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	78		70 - 130								
o-Terphenyl	77		70 - 130								

Lab Sample ID: 890-1383-1 MS

Matrix: Solid

Analysis Batch: 9422

Client Sample ID: CAL-1

Prep Type: Total/NA

Prep Batch: 9440

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1009		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	904.2		mg/Kg		91	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	95		70 - 130								
o-Terphenyl	93		70 - 130								

Lab Sample ID: 890-1383-1 MSD

Matrix: Solid

Analysis Batch: 9422

Client Sample ID: CAL-1

Prep Type: Total/NA

Prep Batch: 9440

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1116		mg/Kg		112	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	922.4		mg/Kg		92	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	98		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1383-1 MSD

Matrix: Solid

Analysis Batch: 9422

Client Sample ID: CAL-1

Prep Type: Total/NA

Prep Batch: 9440

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	96		70 - 130

Lab Sample ID: MB 880-9455/1-A

Matrix: Solid

Analysis Batch: 9426

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9455

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/14/21 11:42	10/14/21 22:31	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 11:42	10/14/21 22:31	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 11:42	10/14/21 22:31	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	84		70 - 130			10/14/21 11:42	10/14/21 22:31	1	
<i>o</i> -Terphenyl	93		70 - 130			10/14/21 11:42	10/14/21 22:31	1	

Lab Sample ID: LCS 880-9455/2-A

Matrix: Solid

Analysis Batch: 9426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9455

		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10		1000	819.1		mg/Kg		82	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	815.4		mg/Kg		82	70 - 130	
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	80		70 - 130						
<i>o</i> -Terphenyl	85		70 - 130						

Lab Sample ID: LCSD 880-9455/3-A

Matrix: Solid

Analysis Batch: 9426

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9455

		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10		1000	829.5		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)		1000	864.7		mg/Kg		86	70 - 130	6	20
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	76		70 - 130							
<i>o</i> -Terphenyl	81		70 - 130							

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1383-17 MS

Matrix: Solid

Analysis Batch: 9426

Client Sample ID: CAL-17

Prep Type: Total/NA

Prep Batch: 9455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	851.2		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	758.5		mg/Kg		76	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	89		70 - 130						
o-Terphenyl	87		70 - 130						

Lab Sample ID: 890-1383-17 MSD

Matrix: Solid

Analysis Batch: 9426

Client Sample ID: CAL-17

Prep Type: Total/NA

Prep Batch: 9455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	887.5		mg/Kg		89	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	795.3		mg/Kg		80	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	90		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9411/1-A

Matrix: Solid

Analysis Batch: 9545

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/15/21 18:56	1

Lab Sample ID: LCS 880-9411/2-A

Matrix: Solid

Analysis Batch: 9545

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	257.9		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-9411/3-A

Matrix: Solid

Analysis Batch: 9545

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	259.0		mg/Kg		104	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1383-9 MS

Matrix: Solid

Analysis Batch: 9545

Client Sample ID: CAL-9

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.1		250	240.7		mg/Kg		90	90 - 110

Lab Sample ID: 890-1383-9 MSD

Matrix: Solid

Analysis Batch: 9545

Client Sample ID: CAL-9

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	16.1		250	241.5		mg/Kg		90	90 - 110	0	20

Lab Sample ID: MB 880-9412/1-A

Matrix: Solid

Analysis Batch: 9590

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/16/21 05:39	1

Lab Sample ID: LCS 880-9412/2-A

Matrix: Solid

Analysis Batch: 9590

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-9412/3-A

Matrix: Solid

Analysis Batch: 9590

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	255.5		mg/Kg		102	90 - 110	7	20

Lab Sample ID: 880-7052-A-18-B MS

Matrix: Solid

Analysis Batch: 9590

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	40.1		250	279.4		mg/Kg		96	90 - 110

Lab Sample ID: 880-7052-A-18-C MSD

Matrix: Solid

Analysis Batch: 9590

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	40.1		250	278.3		mg/Kg		95	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

GC VOA

Prep Batch: 9449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9449/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 9450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-1	CAL-1	Total/NA	Solid	5035	
890-1383-2	CAL-2	Total/NA	Solid	5035	
890-1383-3	CAL-3	Total/NA	Solid	5035	
890-1383-4	CAL-4	Total/NA	Solid	5035	
890-1383-5	CAL-5	Total/NA	Solid	5035	
890-1383-6	CAL-6	Total/NA	Solid	5035	
890-1383-7	CAL-7	Total/NA	Solid	5035	
890-1383-8	CAL-8	Total/NA	Solid	5035	
890-1383-9	CAL-9	Total/NA	Solid	5035	
890-1383-10	CAL-10	Total/NA	Solid	5035	
890-1383-11	CAL-11	Total/NA	Solid	5035	
890-1383-12	CAL-12	Total/NA	Solid	5035	
890-1383-13	CAL-13	Total/NA	Solid	5035	
890-1383-14	CAL-14	Total/NA	Solid	5035	
890-1383-15	CAL-15	Total/NA	Solid	5035	
890-1383-16	CAL-16	Total/NA	Solid	5035	
890-1383-17	CAL-17	Total/NA	Solid	5035	
890-1383-18	CAL-18	Total/NA	Solid	5035	
890-1383-19	CAL-19	Total/NA	Solid	5035	
890-1383-20	CAL-20	Total/NA	Solid	5035	
MB 880-9450/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9450/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9450/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1383-1 MS	CAL-1	Total/NA	Solid	5035	
890-1383-1 MSD	CAL-1	Total/NA	Solid	5035	

Prep Batch: 9452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-21	CAL-21	Total/NA	Solid	5035	
890-1383-22	CAL-22	Total/NA	Solid	5035	
890-1383-23	CAL-23	Total/NA	Solid	5035	
890-1383-24	CAL-24	Total/NA	Solid	5035	
890-1383-25	CAL-25	Total/NA	Solid	5035	
MB 880-9452/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9452/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9452/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1383-21 MS	CAL-21	Total/NA	Solid	5035	
890-1383-21 MSD	CAL-21	Total/NA	Solid	5035	

Analysis Batch: 9522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-1	CAL-1	Total/NA	Solid	8021B	9450
890-1383-2	CAL-2	Total/NA	Solid	8021B	9450
890-1383-3	CAL-3	Total/NA	Solid	8021B	9450
890-1383-4	CAL-4	Total/NA	Solid	8021B	9450
890-1383-5	CAL-5	Total/NA	Solid	8021B	9450
890-1383-6	CAL-6	Total/NA	Solid	8021B	9450

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9522 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-7	CAL-7	Total/NA	Solid	8021B	9450
890-1383-8	CAL-8	Total/NA	Solid	8021B	9450
890-1383-9	CAL-9	Total/NA	Solid	8021B	9450
890-1383-10	CAL-10	Total/NA	Solid	8021B	9450
890-1383-11	CAL-11	Total/NA	Solid	8021B	9450
890-1383-12	CAL-12	Total/NA	Solid	8021B	9450
890-1383-13	CAL-13	Total/NA	Solid	8021B	9450
890-1383-14	CAL-14	Total/NA	Solid	8021B	9450
890-1383-15	CAL-15	Total/NA	Solid	8021B	9450
890-1383-16	CAL-16	Total/NA	Solid	8021B	9450
890-1383-17	CAL-17	Total/NA	Solid	8021B	9450
890-1383-18	CAL-18	Total/NA	Solid	8021B	9450
890-1383-19	CAL-19	Total/NA	Solid	8021B	9450
890-1383-20	CAL-20	Total/NA	Solid	8021B	9450
890-1383-21	CAL-21	Total/NA	Solid	8021B	9452
890-1383-22	CAL-22	Total/NA	Solid	8021B	9452
890-1383-23	CAL-23	Total/NA	Solid	8021B	9452
890-1383-24	CAL-24	Total/NA	Solid	8021B	9452
890-1383-25	CAL-25	Total/NA	Solid	8021B	9452
MB 880-9449/5-A	Method Blank	Total/NA	Solid	8021B	9449
MB 880-9450/5-A	Method Blank	Total/NA	Solid	8021B	9450
MB 880-9452/5-A	Method Blank	Total/NA	Solid	8021B	9452
MB 880-9532/5-A	Method Blank	Total/NA	Solid	8021B	9532
LCS 880-9450/1-A	Lab Control Sample	Total/NA	Solid	8021B	9450
LCS 880-9452/1-A	Lab Control Sample	Total/NA	Solid	8021B	9452
LCSD 880-9450/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9450
LCSD 880-9452/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9452
890-1383-1 MS	CAL-1	Total/NA	Solid	8021B	9450
890-1383-1 MSD	CAL-1	Total/NA	Solid	8021B	9450
890-1383-21 MS	CAL-21	Total/NA	Solid	8021B	9452
890-1383-21 MSD	CAL-21	Total/NA	Solid	8021B	9452

Prep Batch: 9532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9532/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 9796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-1	CAL-1	Total/NA	Solid	Total BTEX	
890-1383-2	CAL-2	Total/NA	Solid	Total BTEX	
890-1383-3	CAL-3	Total/NA	Solid	Total BTEX	
890-1383-4	CAL-4	Total/NA	Solid	Total BTEX	
890-1383-5	CAL-5	Total/NA	Solid	Total BTEX	
890-1383-6	CAL-6	Total/NA	Solid	Total BTEX	
890-1383-7	CAL-7	Total/NA	Solid	Total BTEX	
890-1383-8	CAL-8	Total/NA	Solid	Total BTEX	
890-1383-9	CAL-9	Total/NA	Solid	Total BTEX	
890-1383-10	CAL-10	Total/NA	Solid	Total BTEX	
890-1383-11	CAL-11	Total/NA	Solid	Total BTEX	
890-1383-12	CAL-12	Total/NA	Solid	Total BTEX	
890-1383-13	CAL-13	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 9796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-14	CAL-14	Total/NA	Solid	Total BTEX	
890-1383-15	CAL-15	Total/NA	Solid	Total BTEX	
890-1383-16	CAL-16	Total/NA	Solid	Total BTEX	
890-1383-17	CAL-17	Total/NA	Solid	Total BTEX	
890-1383-18	CAL-18	Total/NA	Solid	Total BTEX	
890-1383-19	CAL-19	Total/NA	Solid	Total BTEX	
890-1383-20	CAL-20	Total/NA	Solid	Total BTEX	
890-1383-21	CAL-21	Total/NA	Solid	Total BTEX	
890-1383-22	CAL-22	Total/NA	Solid	Total BTEX	
890-1383-23	CAL-23	Total/NA	Solid	Total BTEX	
890-1383-24	CAL-24	Total/NA	Solid	Total BTEX	
890-1383-25	CAL-25	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 9354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-23	CAL-23	Total/NA	Solid	8015B NM	9371
890-1383-24	CAL-24	Total/NA	Solid	8015B NM	9371
890-1383-25	CAL-25	Total/NA	Solid	8015B NM	9371
MB 880-9371/1-A	Method Blank	Total/NA	Solid	8015B NM	9371
LCS 880-9371/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9371
LCSD 880-9371/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9371
890-1370-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	9371
890-1370-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9371

Prep Batch: 9371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-23	CAL-23	Total/NA	Solid	8015NM Prep	
890-1383-24	CAL-24	Total/NA	Solid	8015NM Prep	
890-1383-25	CAL-25	Total/NA	Solid	8015NM Prep	
MB 880-9371/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9371/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9371/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1370-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1370-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-1	CAL-1	Total/NA	Solid	8015 NM	
890-1383-2	CAL-2	Total/NA	Solid	8015 NM	
890-1383-3	CAL-3	Total/NA	Solid	8015 NM	
890-1383-4	CAL-4	Total/NA	Solid	8015 NM	
890-1383-5	CAL-5	Total/NA	Solid	8015 NM	
890-1383-6	CAL-6	Total/NA	Solid	8015 NM	
890-1383-7	CAL-7	Total/NA	Solid	8015 NM	
890-1383-8	CAL-8	Total/NA	Solid	8015 NM	
890-1383-9	CAL-9	Total/NA	Solid	8015 NM	
890-1383-10	CAL-10	Total/NA	Solid	8015 NM	
890-1383-11	CAL-11	Total/NA	Solid	8015 NM	
890-1383-12	CAL-12	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 9387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-13	CAL-13	Total/NA	Solid	8015 NM	
890-1383-14	CAL-14	Total/NA	Solid	8015 NM	
890-1383-15	CAL-15	Total/NA	Solid	8015 NM	
890-1383-16	CAL-16	Total/NA	Solid	8015 NM	
890-1383-17	CAL-17	Total/NA	Solid	8015 NM	
890-1383-18	CAL-18	Total/NA	Solid	8015 NM	
890-1383-19	CAL-19	Total/NA	Solid	8015 NM	
890-1383-20	CAL-20	Total/NA	Solid	8015 NM	
890-1383-21	CAL-21	Total/NA	Solid	8015 NM	
890-1383-22	CAL-22	Total/NA	Solid	8015 NM	
890-1383-23	CAL-23	Total/NA	Solid	8015 NM	
890-1383-24	CAL-24	Total/NA	Solid	8015 NM	
890-1383-25	CAL-25	Total/NA	Solid	8015 NM	

Analysis Batch: 9422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-1	CAL-1	Total/NA	Solid	8015B NM	9440
890-1383-2	CAL-2	Total/NA	Solid	8015B NM	9440
890-1383-3	CAL-3	Total/NA	Solid	8015B NM	9440
890-1383-4	CAL-4	Total/NA	Solid	8015B NM	9440
890-1383-5	CAL-5	Total/NA	Solid	8015B NM	9440
890-1383-6	CAL-6	Total/NA	Solid	8015B NM	9440
890-1383-7	CAL-7	Total/NA	Solid	8015B NM	9440
890-1383-8	CAL-8	Total/NA	Solid	8015B NM	9440
890-1383-9	CAL-9	Total/NA	Solid	8015B NM	9440
890-1383-10	CAL-10	Total/NA	Solid	8015B NM	9440
890-1383-11	CAL-11	Total/NA	Solid	8015B NM	9440
890-1383-12	CAL-12	Total/NA	Solid	8015B NM	9440
890-1383-13	CAL-13	Total/NA	Solid	8015B NM	9440
890-1383-14	CAL-14	Total/NA	Solid	8015B NM	9440
890-1383-15	CAL-15	Total/NA	Solid	8015B NM	9440
890-1383-16	CAL-16	Total/NA	Solid	8015B NM	9440
MB 880-9440/1-A	Method Blank	Total/NA	Solid	8015B NM	9440
LCS 880-9440/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9440
LCSD 880-9440/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9440
890-1383-1 MS	CAL-1	Total/NA	Solid	8015B NM	9440
890-1383-1 MSD	CAL-1	Total/NA	Solid	8015B NM	9440

Analysis Batch: 9426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-17	CAL-17	Total/NA	Solid	8015B NM	9455
890-1383-18	CAL-18	Total/NA	Solid	8015B NM	9455
890-1383-19	CAL-19	Total/NA	Solid	8015B NM	9455
890-1383-20	CAL-20	Total/NA	Solid	8015B NM	9455
890-1383-21	CAL-21	Total/NA	Solid	8015B NM	9433
890-1383-22	CAL-22	Total/NA	Solid	8015B NM	9433
MB 880-9433/1-A	Method Blank	Total/NA	Solid	8015B NM	9433
MB 880-9455/1-A	Method Blank	Total/NA	Solid	8015B NM	9455
LCS 880-9433/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9433
LCS 880-9455/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9455
LCSD 880-9433/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9433

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Analysis Batch: 9426 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-9455/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9455
880-6945-A-171-B MS	Matrix Spike	Total/NA	Solid	8015B NM	9433
880-6945-A-171-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9433
890-1383-17 MS	CAL-17	Total/NA	Solid	8015B NM	9455
890-1383-17 MSD	CAL-17	Total/NA	Solid	8015B NM	9455

Prep Batch: 9433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-21	CAL-21	Total/NA	Solid	8015NM Prep	
890-1383-22	CAL-22	Total/NA	Solid	8015NM Prep	
MB 880-9433/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9433/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9433/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6945-A-171-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6945-A-171-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 9440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-1	CAL-1	Total/NA	Solid	8015NM Prep	
890-1383-2	CAL-2	Total/NA	Solid	8015NM Prep	
890-1383-3	CAL-3	Total/NA	Solid	8015NM Prep	
890-1383-4	CAL-4	Total/NA	Solid	8015NM Prep	
890-1383-5	CAL-5	Total/NA	Solid	8015NM Prep	
890-1383-6	CAL-6	Total/NA	Solid	8015NM Prep	
890-1383-7	CAL-7	Total/NA	Solid	8015NM Prep	
890-1383-8	CAL-8	Total/NA	Solid	8015NM Prep	
890-1383-9	CAL-9	Total/NA	Solid	8015NM Prep	
890-1383-10	CAL-10	Total/NA	Solid	8015NM Prep	
890-1383-11	CAL-11	Total/NA	Solid	8015NM Prep	
890-1383-12	CAL-12	Total/NA	Solid	8015NM Prep	
890-1383-13	CAL-13	Total/NA	Solid	8015NM Prep	
890-1383-14	CAL-14	Total/NA	Solid	8015NM Prep	
890-1383-15	CAL-15	Total/NA	Solid	8015NM Prep	
890-1383-16	CAL-16	Total/NA	Solid	8015NM Prep	
MB 880-9440/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9440/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9440/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1383-1 MS	CAL-1	Total/NA	Solid	8015NM Prep	
890-1383-1 MSD	CAL-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 9455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-17	CAL-17	Total/NA	Solid	8015NM Prep	
890-1383-18	CAL-18	Total/NA	Solid	8015NM Prep	
890-1383-19	CAL-19	Total/NA	Solid	8015NM Prep	
890-1383-20	CAL-20	Total/NA	Solid	8015NM Prep	
MB 880-9455/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9455/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9455/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1383-17 MS	CAL-17	Total/NA	Solid	8015NM Prep	
890-1383-17 MSD	CAL-17	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 9411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-1	CAL-1	Soluble	Solid	DI Leach	
890-1383-2	CAL-2	Soluble	Solid	DI Leach	
890-1383-3	CAL-3	Soluble	Solid	DI Leach	
890-1383-4	CAL-4	Soluble	Solid	DI Leach	
890-1383-5	CAL-5	Soluble	Solid	DI Leach	
890-1383-6	CAL-6	Soluble	Solid	DI Leach	
890-1383-7	CAL-7	Soluble	Solid	DI Leach	
890-1383-8	CAL-8	Soluble	Solid	DI Leach	
890-1383-9	CAL-9	Soluble	Solid	DI Leach	
890-1383-10	CAL-10	Soluble	Solid	DI Leach	
890-1383-11	CAL-11	Soluble	Solid	DI Leach	
890-1383-12	CAL-12	Soluble	Solid	DI Leach	
890-1383-13	CAL-13	Soluble	Solid	DI Leach	
890-1383-14	CAL-14	Soluble	Solid	DI Leach	
890-1383-15	CAL-15	Soluble	Solid	DI Leach	
890-1383-16	CAL-16	Soluble	Solid	DI Leach	
890-1383-17	CAL-17	Soluble	Solid	DI Leach	
890-1383-18	CAL-18	Soluble	Solid	DI Leach	
MB 880-9411/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9411/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9411/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1383-9 MS	CAL-9	Soluble	Solid	DI Leach	
890-1383-9 MSD	CAL-9	Soluble	Solid	DI Leach	

Leach Batch: 9412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-19	CAL-19	Soluble	Solid	DI Leach	
890-1383-20	CAL-20	Soluble	Solid	DI Leach	
890-1383-21	CAL-21	Soluble	Solid	DI Leach	
890-1383-22	CAL-22	Soluble	Solid	DI Leach	
890-1383-23	CAL-23	Soluble	Solid	DI Leach	
890-1383-24	CAL-24	Soluble	Solid	DI Leach	
890-1383-25	CAL-25	Soluble	Solid	DI Leach	
MB 880-9412/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9412/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9412/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7052-A-18-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7052-A-18-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 9545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-1	CAL-1	Soluble	Solid	300.0	9411
890-1383-2	CAL-2	Soluble	Solid	300.0	9411
890-1383-3	CAL-3	Soluble	Solid	300.0	9411
890-1383-4	CAL-4	Soluble	Solid	300.0	9411
890-1383-5	CAL-5	Soluble	Solid	300.0	9411
890-1383-6	CAL-6	Soluble	Solid	300.0	9411
890-1383-7	CAL-7	Soluble	Solid	300.0	9411
890-1383-8	CAL-8	Soluble	Solid	300.0	9411
890-1383-9	CAL-9	Soluble	Solid	300.0	9411
890-1383-10	CAL-10	Soluble	Solid	300.0	9411

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 9545 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-11	CAL-11	Soluble	Solid	300.0	9411
890-1383-12	CAL-12	Soluble	Solid	300.0	9411
890-1383-13	CAL-13	Soluble	Solid	300.0	9411
890-1383-14	CAL-14	Soluble	Solid	300.0	9411
890-1383-15	CAL-15	Soluble	Solid	300.0	9411
890-1383-16	CAL-16	Soluble	Solid	300.0	9411
890-1383-17	CAL-17	Soluble	Solid	300.0	9411
890-1383-18	CAL-18	Soluble	Solid	300.0	9411
MB 880-9411/1-A	Method Blank	Soluble	Solid	300.0	9411
LCS 880-9411/2-A	Lab Control Sample	Soluble	Solid	300.0	9411
LCSD 880-9411/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9411
890-1383-9 MS	CAL-9	Soluble	Solid	300.0	9411
890-1383-9 MSD	CAL-9	Soluble	Solid	300.0	9411

Analysis Batch: 9590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1383-19	CAL-19	Soluble	Solid	300.0	9412
890-1383-20	CAL-20	Soluble	Solid	300.0	9412
890-1383-21	CAL-21	Soluble	Solid	300.0	9412
890-1383-22	CAL-22	Soluble	Solid	300.0	9412
890-1383-23	CAL-23	Soluble	Solid	300.0	9412
890-1383-24	CAL-24	Soluble	Solid	300.0	9412
890-1383-25	CAL-25	Soluble	Solid	300.0	9412
MB 880-9412/1-A	Method Blank	Soluble	Solid	300.0	9412
LCS 880-9412/2-A	Lab Control Sample	Soluble	Solid	300.0	9412
LCSD 880-9412/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9412
880-7052-A-18-B MS	Matrix Spike	Soluble	Solid	300.0	9412
880-7052-A-18-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9412

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-1

Lab Sample ID: 890-1383-1

Date Collected: 10/08/21 08:00

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 13:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 13:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9411	10/13/21 18:36	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 19:36	CH	XEN MID

Client Sample ID: CAL-2

Lab Sample ID: 890-1383-2

Date Collected: 10/08/21 08:01

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 13:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 14:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9411	10/13/21 18:36	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 19:41	CH	XEN MID

Client Sample ID: CAL-3

Lab Sample ID: 890-1383-3

Date Collected: 10/08/21 08:02

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 13:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 15:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9411	10/13/21 18:36	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 19:47	CH	XEN MID

Client Sample ID: CAL-4

Lab Sample ID: 890-1383-4

Date Collected: 10/08/21 08:03

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 14:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-4

Date Collected: 10/08/21 08:03

Date Received: 10/08/21 12:00

Lab Sample ID: 890-1383-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 15:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 20:04	CH	XEN MID

Client Sample ID: CAL-5

Date Collected: 10/08/21 08:04

Date Received: 10/08/21 12:00

Lab Sample ID: 890-1383-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 14:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 20:10	CH	XEN MID

Client Sample ID: CAL-6

Date Collected: 10/08/21 08:05

Date Received: 10/08/21 12:00

Lab Sample ID: 890-1383-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 14:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 16:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 20:15	CH	XEN MID

Client Sample ID: CAL-7

Date Collected: 10/08/21 08:06

Date Received: 10/08/21 12:00

Lab Sample ID: 890-1383-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 15:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 16:36	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-7

Date Collected: 10/08/21 08:06

Date Received: 10/08/21 12:00

Lab Sample ID: 890-1383-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 20:21	CH	XEN MID

Client Sample ID: CAL-8

Date Collected: 10/08/21 08:07

Date Received: 10/08/21 12:00

Lab Sample ID: 890-1383-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 15:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 16:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 20:26	CH	XEN MID

Client Sample ID: CAL-9

Date Collected: 10/08/21 08:08

Date Received: 10/08/21 12:00

Lab Sample ID: 890-1383-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 15:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 17:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 20:32	CH	XEN MID

Client Sample ID: CAL-10

Date Collected: 10/08/21 08:09

Date Received: 10/08/21 12:00

Lab Sample ID: 890-1383-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 16:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 17:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 20:49	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-11

Lab Sample ID: 890-1383-11

Date Collected: 10/08/21 08:10

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 17:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 18:19	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 20:54	CH	XEN MID

Client Sample ID: CAL-12

Lab Sample ID: 890-1383-12

Date Collected: 10/08/21 08:11

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 18:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 21:11	CH	XEN MID

Client Sample ID: CAL-13

Lab Sample ID: 890-1383-13

Date Collected: 10/08/21 08:12

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 18:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 18:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 21:17	CH	XEN MID

Client Sample ID: CAL-14

Lab Sample ID: 890-1383-14

Date Collected: 10/08/21 08:13

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 18:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-14

Lab Sample ID: 890-1383-14

Date Collected: 10/08/21 08:13

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 19:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 21:22	CH	XEN MID

Client Sample ID: CAL-15

Lab Sample ID: 890-1383-15

Date Collected: 10/08/21 08:14

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 19:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 19:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 21:28	CH	XEN MID

Client Sample ID: CAL-16

Lab Sample ID: 890-1383-16

Date Collected: 10/08/21 08:15

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 19:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9440	10/14/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9422	10/14/21 20:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 21:34	CH	XEN MID

Client Sample ID: CAL-17

Lab Sample ID: 890-1383-17

Date Collected: 10/08/21 08:16

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 19:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9455	10/14/21 11:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9426	10/14/21 23:36	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-17

Lab Sample ID: 890-1383-17

Date Collected: 10/08/21 08:16

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 21:39	CH	XEN MID

Client Sample ID: CAL-18

Lab Sample ID: 890-1383-18

Date Collected: 10/08/21 08:17

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 20:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9455	10/14/21 11:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9426	10/15/21 00:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9411	10/13/21 18:37	CA	XEN MID
Soluble	Analysis	300.0		1			9545	10/15/21 21:45	CH	XEN MID

Client Sample ID: CAL-19

Lab Sample ID: 890-1383-19

Date Collected: 10/08/21 08:18

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 20:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9455	10/14/21 11:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9426	10/15/21 01:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9412	10/13/21 18:39	CA	XEN MID
Soluble	Analysis	300.0		1			9590	10/16/21 08:31	CH	XEN MID

Client Sample ID: CAL-20

Lab Sample ID: 890-1383-20

Date Collected: 10/08/21 08:19

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9450	10/14/21 10:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/17/21 20:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9455	10/14/21 11:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9426	10/15/21 01:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9412	10/13/21 18:39	CA	XEN MID
Soluble	Analysis	300.0		1			9590	10/16/21 08:39	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-21

Lab Sample ID: 890-1383-21

Date Collected: 10/08/21 08:20

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	9452	10/14/21 10:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/16/21 13:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9433	10/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9426	10/14/21 21:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9412	10/13/21 18:39	CA	XEN MID
Soluble	Analysis	300.0		1			9590	10/16/21 08:46	CH	XEN MID

Client Sample ID: CAL-22

Lab Sample ID: 890-1383-22

Date Collected: 10/08/21 08:21

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9452	10/14/21 10:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/16/21 14:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9433	10/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9426	10/14/21 21:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9412	10/13/21 18:39	CA	XEN MID
Soluble	Analysis	300.0		1			9590	10/16/21 08:53	CH	XEN MID

Client Sample ID: CAL-23

Lab Sample ID: 890-1383-23

Date Collected: 10/08/21 08:22

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.02 g	5 mL	9452	10/14/21 10:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/16/21 14:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9371	10/13/21 11:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/14/21 04:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9412	10/13/21 18:39	CA	XEN MID
Soluble	Analysis	300.0		1			9590	10/16/21 09:00	CH	XEN MID

Client Sample ID: CAL-24

Lab Sample ID: 890-1383-24

Date Collected: 10/08/21 08:23

Matrix: Solid

Date Received: 10/08/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9452	10/14/21 10:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/16/21 14:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Client Sample ID: CAL-24**Date Collected: 10/08/21 08:23****Date Received: 10/08/21 12:00****Lab Sample ID: 890-1383-24****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9371	10/13/21 11:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/14/21 04:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9412	10/13/21 18:39	CA	XEN MID
Soluble	Analysis	300.0		1			9590	10/16/21 09:07	CH	XEN MID

Client Sample ID: CAL-25**Date Collected: 10/08/21 08:24****Date Received: 10/08/21 12:00****Lab Sample ID: 890-1383-25****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9452	10/14/21 10:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9522	10/16/21 15:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9387	10/14/21 16:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9371	10/13/21 11:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/14/21 04:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9412	10/13/21 18:39	CA	XEN MID
Soluble	Analysis	300.0		1			9590	10/16/21 09:14	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Laboratory: Eurofins Xenco, Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST

Job ID: 890-1383-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1383-1	CAL-1	Solid	10/08/21 08:00	10/08/21 12:00
890-1383-2	CAL-2	Solid	10/08/21 08:01	10/08/21 12:00
890-1383-3	CAL-3	Solid	10/08/21 08:02	10/08/21 12:00
890-1383-4	CAL-4	Solid	10/08/21 08:03	10/08/21 12:00
890-1383-5	CAL-5	Solid	10/08/21 08:04	10/08/21 12:00
890-1383-6	CAL-6	Solid	10/08/21 08:05	10/08/21 12:00
890-1383-7	CAL-7	Solid	10/08/21 08:06	10/08/21 12:00
890-1383-8	CAL-8	Solid	10/08/21 08:07	10/08/21 12:00
890-1383-9	CAL-9	Solid	10/08/21 08:08	10/08/21 12:00
890-1383-10	CAL-10	Solid	10/08/21 08:09	10/08/21 12:00
890-1383-11	CAL-11	Solid	10/08/21 08:10	10/08/21 12:00
890-1383-12	CAL-12	Solid	10/08/21 08:11	10/08/21 12:00
890-1383-13	CAL-13	Solid	10/08/21 08:12	10/08/21 12:00
890-1383-14	CAL-14	Solid	10/08/21 08:13	10/08/21 12:00
890-1383-15	CAL-15	Solid	10/08/21 08:14	10/08/21 12:00
890-1383-16	CAL-16	Solid	10/08/21 08:15	10/08/21 12:00
890-1383-17	CAL-17	Solid	10/08/21 08:16	10/08/21 12:00
890-1383-18	CAL-18	Solid	10/08/21 08:17	10/08/21 12:00
890-1383-19	CAL-19	Solid	10/08/21 08:18	10/08/21 12:00
890-1383-20	CAL-20	Solid	10/08/21 08:19	10/08/21 12:00
890-1383-21	CAL-21	Solid	10/08/21 08:20	10/08/21 12:00
890-1383-22	CAL-22	Solid	10/08/21 08:21	10/08/21 12:00
890-1383-23	CAL-23	Solid	10/08/21 08:22	10/08/21 12:00
890-1383-24	CAL-24	Solid	10/08/21 08:23	10/08/21 12:00
890-1383-25	CAL-25	Solid	10/08/21 08:24	10/08/21 12:00

[illegible]

No. 2127
CHAIN-OF-CUSTODY

[illegible]

Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No:									
Shipping/Receiving				Phone	Taylor Holly	State of Origin	890-454 1									
Company				E-Mail	holly.taylor@eurofinset.com	New Mexico	Page: 1 of 3									
Address				Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas												
1211 W. Florida Ave.				Due Date Requested	Analysis Requested											
City				10/14/2021												
Midland				TAT Requested (days):												
State, Zip:																
TX 79701																
Phone				PO #												
432-704-5440(Tel)																
Email				WO #												
Project Name:				Project #												
Palmito Ast				89000025												
Site:				SSOW#												
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=overseal, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
CAL-1 (890-1383-1)	10/8/21	08 00	Solid		X	X	X	X	X							
CAL-2 (890-1383-2)	10/8/21	08 01	Solid		X	X	X	X	X							
CAL-3 (890-1383-3)	10/8/21	08 02	Solid		X	X	X	X	X							
CAL-4 (890-1383-4)	10/8/21	08 03	Solid		X	X	X	X	X							
CAL-5 (890-1383-5)	10/8/21	08 04	Solid		X	X	X	X	X							
CAL-6 (890-1383-6)	10/8/21	08 05	Solid		X	X	X	X	X							
CAL-7 (890-1383-7)	10/8/21	08 06	Solid		X	X	X	X	X							
CAL-8 (890-1383-8)	10/8/21	08 07	Solid		X	X	X	X	X							
CAL-9 (890-1383-9)	10/8/21	08 08	Solid		X	X	X	X	X							
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/mark being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.																
Possible Hazard Identification																
Unconfirmed																
Deliverable Requested I, II, III, IV Other (Specify) _____ Primary Deliverable Rank: 2 _____																
Empty Kit Relinquished by _____ Date _____ Time _____ Method of Shipment _____																
Relinquished by _____ Date/Time: 10/19/21 _____ Company _____ Received by _____ Date/Time: 10/20/21 _____ Company _____																
Relinquished by _____ Date/Time: _____ Company _____ Received by _____ Date/Time: _____ Company _____																
Custody Seals Intact _____ Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks: 24/2.9 _____																

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Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record



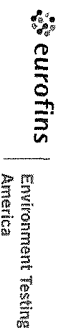
Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact:	Phone:	Taylor Holly			890-454 2
Shipping/Receiving	E-Mail	holly.taylor@eurofinset.com	State of Origin		Page 2 of 3
Company	Eurofins Xenco		Accreditations Required (See note)		Job #:
Address	1211 W Florida Ave		NELAP - Louisiana NELAP - Texas		890-1383-1
City	Midland		Analysis Requested		
State, Zip	TX, 79701				
Phone:	432-704-5440(Tel)				
Email	WO #				
Project Name	Palmito Ast				
Site	SSOW#				
Sample Identification - Client ID (Lab ID)					
CAL-10 (890-1383-10)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)
CAL-10 (890-1383-10)	10/8/21	08 09	Solid	Solid	Perform MS/MSD (Yes or No)
CAL-11 (890-1383-11)	10/8/21	08 10	Solid	Solid	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH
CAL-12 (890-1383-12)	10/8/21	08 11	Solid	Solid	8015MOD_Calc
CAL-13 (890-1383-13)	10/8/21	08 12	Solid	Solid	300_ORGFM_28D/DI_LEACH Chloride
CAL-14 (890-1383-14)	10/8/21	08 13	Solid	Solid	8021B/6036FP_Calc (MOD) BTEX - LL
CAL-15 (890-1383-15)	10/8/21	08 14	Solid	Solid	Total_BTEX_GCV
CAL-16 (890-1383-16)	10/8/21	08 15	Solid	Solid	
CAL-17 (890-1383-17)	10/8/21	08 16	Solid	Solid	
CAL-18 (890-1383-18)	10/8/21	08 17	Solid	Solid	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/mark being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (Specify)					
Primary Deliverable Rank 2					
Special Instructions/QC Requirements					
Empty Kit Relinquished by					
Relinquished by					
Relinquished by					
Custody Seals Intact					
Custody Seal No					
Cooler Temperature(s) °C and Other Remarks.					

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Eurofins Xenco Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1383-1

SDG Number: 21-0105-02

Login Number: 1383**List Number: 1****Creator: Olivas, Nathaniel****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1383-1

SDG Number: 21-0105-02

Login Number: 1383**List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Xenco, Midland****List Creation: 10/11/21 11:09 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1864-1

Laboratory Sample Delivery Group: 21-0105-02

Client Project/Site: Palmio AST Backfill

For:

Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in cursive script that reads "Holly Taylor".

Authorized for release by:
1/31/2022 4:17:29 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Laboratory Job ID: 890-1864-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Job ID: 890-1864-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-1864-1****Receipt**

The samples were received on 1/24/2022 2:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 17.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17753 and 880-17746 and analytical batch 880-17747 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BF-33 (890-1864-3), BF-35 (890-1864-5), BF-38 (890-1864-8), BF-42 (890-1864-12), BF-43 (890-1864-13), BF-44 (890-1864-14), BF-45 (890-1864-15), (880-10594-A-1-A MS) and (880-10594-A-1-B MSD). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17863, 880-17863 and 880-17886 and analytical batch 880-17867 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCSD 880-17886/2-A), (880-10599-A-4-B MS), (880-10599-A-4-C MSD) and (880-10654-A-21-B MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BF-33 (890-1864-3), BF-42 (890-1864-12), BF-43 (890-1864-13), (890-1864-A-1-H MS) and (890-1864-A-1-I MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17768 and analytical batch 880-18065 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The laboratory control sample (LCS) associated with preparation batch 880-17771 and analytical batch 880-17923 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-31

Lab Sample ID: 890-1864-1

Date Collected: 01/24/22 13:21

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/26/22 11:30	01/26/22 14:58	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/26/22 11:30	01/26/22 14:58	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/26/22 11:30	01/26/22 14:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/26/22 11:30	01/26/22 14:58	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/26/22 11:30	01/26/22 14:58	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/26/22 11:30	01/26/22 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	01/26/22 11:30	01/26/22 14:58	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/26/22 11:30	01/26/22 14:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 12:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 12:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130	01/28/22 08:25	01/28/22 12:39	1
o-Terphenyl (Surr)	101		70 - 130	01/28/22 08:25	01/28/22 12:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.0		4.95	mg/Kg			01/29/22 15:21	1

Client Sample ID: BF-32

Lab Sample ID: 890-1864-2

Date Collected: 01/24/22 13:22

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/26/22 11:30	01/26/22 15:18	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/26/22 11:30	01/26/22 15:18	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/26/22 11:30	01/26/22 15:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/26/22 11:30	01/26/22 15:18	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/26/22 11:30	01/26/22 15:18	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/26/22 11:30	01/26/22 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	01/26/22 11:30	01/26/22 15:18	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/26/22 11:30	01/26/22 15:18	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-32

Lab Sample ID: 890-1864-2

Date Collected: 01/24/22 13:22

Matrix: Solid

Date Received: 01/24/22 14:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 13:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 13:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 13:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			01/28/22 08:25	01/28/22 13:51	1
o-Terphenyl (Surr)	89		70 - 130			01/28/22 08:25	01/28/22 13:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.8		4.99	mg/Kg			01/29/22 15:29	1

Client Sample ID: BF-33

Lab Sample ID: 890-1864-3

Date Collected: 01/24/22 13:23

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/26/22 11:30	01/26/22 17:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/26/22 11:30	01/26/22 17:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/26/22 11:30	01/26/22 17:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/26/22 11:30	01/26/22 17:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/26/22 11:30	01/26/22 17:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/26/22 11:30	01/26/22 17:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130			01/26/22 11:30	01/26/22 17:09	1
1,4-Difluorobenzene (Surr)	84		70 - 130			01/26/22 11:30	01/26/22 17:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 14:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 14:14	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-33

Lab Sample ID: 890-1864-3

Date Collected: 01/24/22 13:23

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130			01/28/22 08:25	01/28/22 14:14	1
o-Terphenyl (Surr)	75		70 - 130			01/28/22 08:25	01/28/22 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.14		4.96	mg/Kg			01/29/22 15:37	1

Client Sample ID: BF-34

Lab Sample ID: 890-1864-4

Date Collected: 01/24/22 13:24

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/26/22 11:30	01/26/22 17:29	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/26/22 11:30	01/26/22 17:29	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/26/22 11:30	01/26/22 17:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/26/22 11:30	01/26/22 17:29	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/26/22 11:30	01/26/22 17:29	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/26/22 11:30	01/26/22 17:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			01/26/22 11:30	01/26/22 17:29	1
1,4-Difluorobenzene (Surr)	100		70 - 130			01/26/22 11:30	01/26/22 17:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 14:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 14:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 14:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130			01/28/22 08:25	01/28/22 14:35	1
o-Terphenyl (Surr)	83		70 - 130			01/28/22 08:25	01/28/22 14:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		4.99	mg/Kg			01/29/22 15:44	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-35

Lab Sample ID: 890-1864-5

Date Collected: 01/24/22 13:25

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/26/22 11:30	01/26/22 17:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/26/22 11:30	01/26/22 17:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/26/22 11:30	01/26/22 17:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/26/22 11:30	01/26/22 17:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/26/22 11:30	01/26/22 17:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/26/22 11:30	01/26/22 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	01/26/22 11:30	01/26/22 17:50	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/26/22 11:30	01/26/22 17:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 14:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 14:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130	01/28/22 08:25	01/28/22 14:58	1
o-Terphenyl (Surr)	90		70 - 130	01/28/22 08:25	01/28/22 14:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.4		4.97	mg/Kg			01/29/22 17:44	1

Client Sample ID: BF-36

Lab Sample ID: 890-1864-6

Date Collected: 01/24/22 13:26

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/26/22 11:30	01/26/22 18:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/26/22 11:30	01/26/22 18:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/26/22 11:30	01/26/22 18:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/26/22 11:30	01/26/22 18:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/26/22 11:30	01/26/22 18:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/26/22 11:30	01/26/22 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	01/26/22 11:30	01/26/22 18:10	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/26/22 11:30	01/26/22 18:10	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-36

Lab Sample ID: 890-1864-6

Date Collected: 01/24/22 13:26

Matrix: Solid

Date Received: 01/24/22 14:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 15:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 15:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 15:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			01/28/22 08:25	01/28/22 15:19	1
o-Terphenyl (Surr)	100		70 - 130			01/28/22 08:25	01/28/22 15:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.3		4.95	mg/Kg			01/29/22 15:59	1

Client Sample ID: BF-37

Lab Sample ID: 890-1864-7

Date Collected: 01/24/22 13:27

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/26/22 11:30	01/26/22 18:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/22 11:30	01/26/22 18:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/26/22 11:30	01/26/22 18:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/26/22 11:30	01/26/22 18:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/26/22 11:30	01/26/22 18:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/26/22 11:30	01/26/22 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			01/26/22 11:30	01/26/22 18:31	1
1,4-Difluorobenzene (Surr)	107		70 - 130			01/26/22 11:30	01/26/22 18:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 15:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 15:44	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-37

Lab Sample ID: 890-1864-7

Date Collected: 01/24/22 13:27

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 15:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			01/28/22 08:25	01/28/22 15:44	1
o-Terphenyl (Surr)	94		70 - 130			01/28/22 08:25	01/28/22 15:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		5.00	mg/Kg			01/29/22 16:07	1

Client Sample ID: BF-38

Lab Sample ID: 890-1864-8

Date Collected: 01/24/22 13:28

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/26/22 11:30	01/26/22 18:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/26/22 11:30	01/26/22 18:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/26/22 11:30	01/26/22 18:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/26/22 11:30	01/26/22 18:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/26/22 11:30	01/26/22 18:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/26/22 11:30	01/26/22 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	186	S1+	70 - 130			01/26/22 11:30	01/26/22 18:51	1
1,4-Difluorobenzene (Surr)	128		70 - 130			01/26/22 11:30	01/26/22 18:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 16:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 16:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 16:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			01/28/22 08:25	01/28/22 16:05	1
o-Terphenyl (Surr)	115		70 - 130			01/28/22 08:25	01/28/22 16:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1	-	4.99	mg/Kg			01/31/22 09:25	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-39

Lab Sample ID: 890-1864-9

Date Collected: 01/24/22 13:29

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/26/22 11:30	01/26/22 19:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/22 11:30	01/26/22 19:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/26/22 11:30	01/26/22 19:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/26/22 11:30	01/26/22 19:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/26/22 11:30	01/26/22 19:12	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/26/22 11:30	01/26/22 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/26/22 11:30	01/26/22 19:12	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/26/22 11:30	01/26/22 19:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 16:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 16:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130	01/28/22 08:25	01/28/22 16:27	1
o-Terphenyl (Surr)	80		70 - 130	01/28/22 08:25	01/28/22 16:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.32	*-	5.00	mg/Kg			01/31/22 10:00	1

Client Sample ID: BF-40

Lab Sample ID: 890-1864-10

Date Collected: 01/24/22 13:30

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/26/22 11:30	01/26/22 19:32	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/26/22 11:30	01/26/22 19:32	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/26/22 11:30	01/26/22 19:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/26/22 11:30	01/26/22 19:32	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/26/22 11:30	01/26/22 19:32	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/26/22 11:30	01/26/22 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	01/26/22 11:30	01/26/22 19:32	1
1,4-Difluorobenzene (Surr)	113		70 - 130	01/26/22 11:30	01/26/22 19:32	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-40

Lab Sample ID: 890-1864-10

Date Collected: 01/24/22 13:30

Matrix: Solid

Date Received: 01/24/22 14:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 16:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 16:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 16:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			01/28/22 08:25	01/28/22 16:49	1
o-Terphenyl (Surr)	93		70 - 130			01/28/22 08:25	01/28/22 16:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.67	*-	4.98	mg/Kg			01/31/22 10:12	1

Client Sample ID: BF-41

Lab Sample ID: 890-1864-11

Date Collected: 01/24/22 13:31

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/26/22 11:30	01/26/22 19:53	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/26/22 11:30	01/26/22 19:53	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/26/22 11:30	01/26/22 19:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/26/22 11:30	01/26/22 19:53	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/26/22 11:30	01/26/22 19:53	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/26/22 11:30	01/26/22 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			01/26/22 11:30	01/26/22 19:53	1
1,4-Difluorobenzene (Surr)	117		70 - 130			01/26/22 11:30	01/26/22 19:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 17:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 17:33	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-41

Lab Sample ID: 890-1864-11

Date Collected: 01/24/22 13:31

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 17:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130			01/28/22 08:25	01/28/22 17:33	1
o-Terphenyl (Surr)	82		70 - 130			01/28/22 08:25	01/28/22 17:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U *-	4.95	mg/Kg			01/31/22 10:24	1

Client Sample ID: BF-42

Lab Sample ID: 890-1864-12

Date Collected: 01/24/22 13:32

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/26/22 11:30	01/26/22 20:13	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/26/22 11:30	01/26/22 20:13	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/26/22 11:30	01/26/22 20:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/26/22 11:30	01/26/22 20:13	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/26/22 11:30	01/26/22 20:13	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/26/22 11:30	01/26/22 20:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			01/26/22 11:30	01/26/22 20:13	1
1,4-Difluorobenzene (Surr)	84		70 - 130			01/26/22 11:30	01/26/22 20:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 17:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 17:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 17:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	67	S1-	70 - 130			01/28/22 08:25	01/28/22 17:56	1
o-Terphenyl (Surr)	73		70 - 130			01/28/22 08:25	01/28/22 17:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U *-	5.04	mg/Kg			01/31/22 10:36	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-43

Lab Sample ID: 890-1864-13

Date Collected: 01/24/22 13:33

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/26/22 08:34	01/27/22 06:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/26/22 08:34	01/27/22 06:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/26/22 08:34	01/27/22 06:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/26/22 08:34	01/27/22 06:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/26/22 08:34	01/27/22 06:48	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/26/22 08:34	01/27/22 06:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	01/26/22 08:34	01/27/22 06:48	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	01/26/22 08:34	01/27/22 06:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 18:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 18:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130	01/28/22 08:25	01/28/22 18:17	1
o-Terphenyl (Surr)	75		70 - 130	01/28/22 08:25	01/28/22 18:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U *-	4.99	mg/Kg			01/31/22 11:11	1

Client Sample ID: BF-44

Lab Sample ID: 890-1864-14

Date Collected: 01/24/22 13:34

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/26/22 08:34	01/27/22 07:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/26/22 08:34	01/27/22 07:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/26/22 08:34	01/27/22 07:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/26/22 08:34	01/27/22 07:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/26/22 08:34	01/27/22 07:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/26/22 08:34	01/27/22 07:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	01/26/22 08:34	01/27/22 07:08	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130	01/26/22 08:34	01/27/22 07:08	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-44

Lab Sample ID: 890-1864-14

Date Collected: 01/24/22 13:34

Matrix: Solid

Date Received: 01/24/22 14:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 18:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 18:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 18:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			01/28/22 08:25	01/28/22 18:39	1
o-Terphenyl (Surr)	87		70 - 130			01/28/22 08:25	01/28/22 18:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.37	*-	4.98	mg/Kg			01/31/22 11:23	1

Client Sample ID: BF-45

Lab Sample ID: 890-1864-15

Date Collected: 01/24/22 13:35

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/26/22 08:34	01/27/22 07:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/22 08:34	01/27/22 07:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/26/22 08:34	01/27/22 07:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/26/22 08:34	01/27/22 07:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/26/22 08:34	01/27/22 07:29	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/26/22 08:34	01/27/22 07:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			01/26/22 08:34	01/27/22 07:29	1
1,4-Difluorobenzene (Surr)	103		70 - 130			01/26/22 08:34	01/27/22 07:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 19:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 19:00	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-45

Lab Sample ID: 890-1864-15

Date Collected: 01/24/22 13:35

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 19:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	70		70 - 130			01/28/22 08:25	01/28/22 19:00	1
o-Terphenyl (Surr)	77		70 - 130			01/28/22 08:25	01/28/22 19:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U *-	4.97	mg/Kg			01/31/22 11:35	1

Client Sample ID: BF-46

Lab Sample ID: 890-1864-16

Date Collected: 01/24/22 13:36

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/26/22 08:34	01/27/22 07:49	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/26/22 08:34	01/27/22 07:49	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/26/22 08:34	01/27/22 07:49	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/26/22 08:34	01/27/22 07:49	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/26/22 08:34	01/27/22 07:49	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/26/22 08:34	01/27/22 07:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			01/26/22 08:34	01/27/22 07:49	1
1,4-Difluorobenzene (Surr)	106		70 - 130			01/26/22 08:34	01/27/22 07:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 19:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 19:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/28/22 08:25	01/28/22 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			01/28/22 08:25	01/28/22 19:23	1
o-Terphenyl (Surr)	85		70 - 130			01/28/22 08:25	01/28/22 19:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.42	*-	4.96	mg/Kg			01/31/22 11:47	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-47

Lab Sample ID: 890-1864-17

Date Collected: 01/24/22 13:37

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/27/22 08:03	01/27/22 16:27	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/27/22 08:03	01/27/22 16:27	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/27/22 08:03	01/27/22 16:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/27/22 08:03	01/27/22 16:27	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/27/22 08:03	01/27/22 16:27	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/27/22 08:03	01/27/22 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	01/27/22 08:03	01/27/22 16:27	1
1,4-Difluorobenzene (Surr)	81		70 - 130	01/27/22 08:03	01/27/22 16:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 19:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 19:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	01/28/22 08:25	01/28/22 19:45	1
o-Terphenyl (Surr)	98		70 - 130	01/28/22 08:25	01/28/22 19:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.67	*-	4.95	mg/Kg			01/31/22 11:59	1

Client Sample ID: BF-48

Lab Sample ID: 890-1864-18

Date Collected: 01/24/22 13:38

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 16:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 16:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 16:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/27/22 08:03	01/27/22 16:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 16:48	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/27/22 08:03	01/27/22 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	01/27/22 08:03	01/27/22 16:48	1
1,4-Difluorobenzene (Surr)	73		70 - 130	01/27/22 08:03	01/27/22 16:48	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-48

Lab Sample ID: 890-1864-18

Date Collected: 01/24/22 13:38

Matrix: Solid

Date Received: 01/24/22 14:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 20:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 20:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			01/28/22 08:25	01/28/22 20:06	1
o-Terphenyl (Surr)	93		70 - 130			01/28/22 08:25	01/28/22 20:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.19	*-	5.00	mg/Kg			01/31/22 12:10	1

Client Sample ID: BF-49

Lab Sample ID: 890-1864-19

Date Collected: 01/24/22 13:39

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 17:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 17:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 17:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/27/22 08:03	01/27/22 17:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 17:08	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/27/22 08:03	01/27/22 17:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			01/27/22 08:03	01/27/22 17:08	1
1,4-Difluorobenzene (Surr)	92		70 - 130			01/27/22 08:03	01/27/22 17:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 20:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 20:28	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-49

Lab Sample ID: 890-1864-19

Date Collected: 01/24/22 13:39

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 20:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			01/28/22 08:25	01/28/22 20:28	1
o-Terphenyl (Surr)	101		70 - 130			01/28/22 08:25	01/28/22 20:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.54	*-	5.05	mg/Kg			01/31/22 12:46	1

Client Sample ID: BF-50

Lab Sample ID: 890-1864-20

Date Collected: 01/24/22 13:40

Matrix: Solid

Date Received: 01/24/22 14:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/27/22 08:03	01/27/22 17:28	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/27/22 08:03	01/27/22 17:28	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/27/22 08:03	01/27/22 17:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/27/22 08:03	01/27/22 17:28	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/27/22 08:03	01/27/22 17:28	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/27/22 08:03	01/27/22 17:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			01/27/22 08:03	01/27/22 17:28	1
1,4-Difluorobenzene (Surr)	73		70 - 130			01/27/22 08:03	01/27/22 17:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 20:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 20:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 20:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			01/28/22 08:25	01/28/22 20:49	1
o-Terphenyl (Surr)	88		70 - 130			01/28/22 08:25	01/28/22 20:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U *-	4.99	mg/Kg			01/31/22 12:58	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-10594-A-1-A MS	Matrix Spike	78	61 S1-
880-10594-A-1-B MSD	Matrix Spike Duplicate	65 S1-	50 S1-
880-10599-A-4-B MS	Matrix Spike	70	57 S1-
880-10599-A-4-C MSD	Matrix Spike Duplicate	162 S1+	91
880-10601-A-1-A MS	Matrix Spike	129	105
880-10601-A-1-B MSD	Matrix Spike Duplicate	117	113
890-1864-1	BF-31	76	90
890-1864-2	BF-32	81	99
890-1864-3	BF-33	150 S1+	84
890-1864-4	BF-34	100	100
890-1864-5	BF-35	138 S1+	103
890-1864-6	BF-36	124	102
890-1864-7	BF-37	91	107
890-1864-8	BF-38	186 S1+	128
890-1864-9	BF-39	121	94
890-1864-10	BF-40	86	113
890-1864-11	BF-41	101	117
890-1864-12	BF-42	132 S1+	84
890-1864-13	BF-43	113	66 S1-
890-1864-14	BF-44	120	62 S1-
890-1864-15	BF-45	129	103
890-1864-16	BF-46	91	106
890-1864-17	BF-47	120	81
890-1864-18	BF-48	97	73
890-1864-19	BF-49	113	92
890-1864-20	BF-50	123	73
LCS 880-17746/1-A	Lab Control Sample	122	98
LCS 880-17753/1-A	Lab Control Sample	123	101
LCS 880-17863/1-A	Lab Control Sample	108	98
LCSD 880-17746/2-A	Lab Control Sample Dup	123	98
LCSD 880-17753/2-A	Lab Control Sample Dup	114	96
LCSD 880-17863/2-A	Lab Control Sample Dup	105	86
MB 880-17746/5-A	Method Blank	123	99
MB 880-17753/5-A	Method Blank	125	95
MB 880-17863/5-A	Method Blank	104	93
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-1864-1	BF-31	86	101
890-1864-1 MS	BF-31	59 S1-	60 S1-
890-1864-1 MSD	BF-31	69 S1-	69 S1-
890-1864-2	BF-32	77	89

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1864-3	BF-33	69 S1-	75
890-1864-4	BF-34	71	83
890-1864-5	BF-35	76	90
890-1864-6	BF-36	85	100
890-1864-7	BF-37	81	94
890-1864-8	BF-38	96	115
890-1864-9	BF-39	73	80
890-1864-10	BF-40	83	93
890-1864-11	BF-41	74	82
890-1864-12	BF-42	67 S1-	73
890-1864-13	BF-43	69 S1-	75
890-1864-14	BF-44	78	87
890-1864-15	BF-45	70	77
890-1864-16	BF-46	77	85
890-1864-17	BF-47	89	98
890-1864-18	BF-48	81	93
890-1864-19	BF-49	89	101
890-1864-20	BF-50	78	88
LCS 880-17975/2-A	Lab Control Sample	109	120
LCSD 880-17975/3-A	Lab Control Sample Dup	104	114
MB 880-17975/1-A	Method Blank	93	112

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17746/5-A

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17746

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/26/22 10:15	01/26/22 11:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/22 10:15	01/26/22 11:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/26/22 10:15	01/26/22 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/26/22 10:15	01/26/22 11:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/26/22 10:15	01/26/22 11:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/26/22 10:15	01/26/22 11:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/26/22 10:15	01/26/22 11:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/26/22 10:15	01/26/22 11:45	1

Lab Sample ID: LCS 880-17746/1-A

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17746

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09956		mg/Kg		100	70 - 130
Toluene	0.100	0.09898		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1987		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09714		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-17746/2-A

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17746

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09980		mg/Kg		100	70 - 130	0	35
Toluene	0.100	0.1009		mg/Kg		101	70 - 130	2	35
Ethylbenzene	0.100	0.09787		mg/Kg		98	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1964		mg/Kg		98	70 - 130	1	35
o-Xylene	0.100	0.1019		mg/Kg		102	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-10601-A-1-A MS

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17746

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1 F2	0.0992	0.3018	F1	mg/Kg		304	70 - 130
Toluene	<0.00200	U	0.0992	0.09445		mg/Kg		95	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-10601-A-1-A MS

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17746

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.0992	0.09131		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1872		mg/Kg		94	70 - 130
o-Xylene	<0.00200	U	0.0992	0.09031		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-10601-A-1-B MSD

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17746

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.0996	0.05939	F1 F2	mg/Kg		60	70 - 130	134	35
Toluene	<0.00200	U	0.0996	0.09152		mg/Kg		92	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.08033		mg/Kg		81	70 - 130	13	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1621		mg/Kg		81	70 - 130	14	35
o-Xylene	<0.00200	U	0.0996	0.08649		mg/Kg		87	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: MB 880-17753/5-A

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17753

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/26/22 08:34	01/26/22 23:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/22 08:34	01/26/22 23:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/26/22 08:34	01/26/22 23:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/26/22 08:34	01/26/22 23:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/26/22 08:34	01/26/22 23:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/26/22 08:34	01/26/22 23:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	01/26/22 08:34	01/26/22 23:23	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/26/22 08:34	01/26/22 23:23	1

Lab Sample ID: LCS 880-17753/1-A

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17753

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07440		mg/Kg		74	70 - 130
Toluene	0.100	0.08263		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08016		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1579		mg/Kg		79	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-17753/1-A

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17753

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.08183		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-17753/2-A

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17753

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08498		mg/Kg		85	70 - 130	13	35
Toluene	0.100	0.09462		mg/Kg		95	70 - 130	14	35
Ethylbenzene	0.100	0.09351		mg/Kg		94	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1837		mg/Kg		92	70 - 130	15	35
o-Xylene	0.100	0.09007		mg/Kg		90	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-10594-A-1-A MS

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F2 F1	0.0994	0.005501	F1	mg/Kg		6	70 - 130
Toluene	<0.00202	U F2 F1	0.0994	0.01416	F1	mg/Kg		14	70 - 130
Ethylbenzene	<0.00202	U F2 F1	0.0994	0.01303	F1	mg/Kg		13	70 - 130
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.199	0.009919	F1	mg/Kg		5	70 - 130
o-Xylene	<0.00202	U F1	0.0994	0.006544	F1	mg/Kg		7	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1,4-Difluorobenzene (Surr)	61	S1-	70 - 130

Lab Sample ID: 880-10594-A-1-B MSD

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17753

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F2 F1	0.100	0.06107	F2 F1	mg/Kg		61	70 - 130	167	35
Toluene	<0.00202	U F2 F1	0.100	0.03901	F2 F1	mg/Kg		39	70 - 130	93	35
Ethylbenzene	<0.00202	U F2 F1	0.100	0.02275	F2 F1	mg/Kg		23	70 - 130	54	35
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.200	0.03468	F2 F1	mg/Kg		17	70 - 130	111	35
o-Xylene	<0.00202	U F1	0.100	0.005918	F1	mg/Kg		6	70 - 130	10	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-10594-A-1-B MSD

Matrix: Solid

Analysis Batch: 17747

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17753

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130
1,4-Difluorobenzene (Surr)	50	S1-	70 - 130

Lab Sample ID: MB 880-17863/5-A

Matrix: Solid

Analysis Batch: 17867

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17863

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 11:40	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 11:40	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 11:40	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/27/22 08:03	01/27/22 11:40	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/27/22 08:03	01/27/22 11:40	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/27/22 08:03	01/27/22 11:40	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			01/27/22 08:03	01/27/22 11:40	1	
1,4-Difluorobenzene (Surr)	93		70 - 130			01/27/22 08:03	01/27/22 11:40	1	

Lab Sample ID: LCS 880-17863/1-A

Matrix: Solid

Analysis Batch: 17867

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17863

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.07807		mg/Kg		78	70 - 130		
Toluene	0.100	0.07443		mg/Kg		74	70 - 130		
Ethylbenzene	0.100	0.07762		mg/Kg		78	70 - 130		
m-Xylene & p-Xylene	0.200	0.1650		mg/Kg		83	70 - 130		
o-Xylene	0.100	0.08230		mg/Kg		82	70 - 130		
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: LCSD 880-17863/2-A

Matrix: Solid

Analysis Batch: 17867

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17863

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07959		mg/Kg		80	70 - 130	2	35	
Toluene	0.100	0.07701		mg/Kg		77	70 - 130	3	35	
Ethylbenzene	0.100	0.08359		mg/Kg		84	70 - 130	7	35	
m-Xylene & p-Xylene	0.200	0.1715		mg/Kg		86	70 - 130	4	35	
o-Xylene	0.100	0.08472		mg/Kg		85	70 - 130	3	35	
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	105		70 - 130							

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-17863/2-A

Matrix: Solid

Analysis Batch: 17867

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17863

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-10599-A-4-B MS

Matrix: Solid

Analysis Batch: 17867

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17863

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.0990	0.01665	F1	mg/Kg		17	70 - 130
Toluene	<0.00198	U F1 F2	0.0990	0.008089	F1	mg/Kg		8	70 - 130
Ethylbenzene	<0.00198	U F1	0.0990	0.01789	F1	mg/Kg		18	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1 F2	0.198	0.02358	F1	mg/Kg		12	70 - 130
o-Xylene	<0.00198	U F1 F2	0.0990	0.04114	F1	mg/Kg		42	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	70		70 - 130
1,4-Difluorobenzene (Surr)	57	S1-	70 - 130

Lab Sample ID: 880-10599-A-4-C MSD

Matrix: Solid

Analysis Batch: 17867

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17863

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0996	0.01314	F1	mg/Kg		13	70 - 130	24	35
Toluene	<0.00198	U F1 F2	0.0996	0.01615	F1 F2	mg/Kg		16	70 - 130	67	35
Ethylbenzene	<0.00198	U F1	0.0996	0.01992	F1	mg/Kg		20	70 - 130	11	35
m-Xylene & p-Xylene	<0.00397	U F1 F2	0.199	0.04936	F1 F2	mg/Kg		25	70 - 130	71	35
o-Xylene	<0.00198	U F1 F2	0.0996	0.02546	F1 F2	mg/Kg		26	70 - 130	47	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-17975/1-A

Matrix: Solid

Analysis Batch: 17977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17975

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 11:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 11:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:25	01/28/22 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	01/28/22 08:25	01/28/22 11:31	1
o-Terphenyl (Surr)	112		70 - 130	01/28/22 08:25	01/28/22 11:31	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-17975/2-A

Matrix: Solid

Analysis Batch: 17977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17975

Analyte			Spike	LCS	LCS	Unit	D	%Rec.		
			Added	Result	Qualifier			Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	887.9		mg/Kg		89	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1015		mg/Kg		101	70 - 130	

Lab Sample ID: LCSD 880-17975/3-A

Matrix: Solid

Analysis Batch: 17977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17975

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	885.5		mg/Kg		89	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	978.3		mg/Kg		98	70 - 130	4	20

Lab Sample ID: 890-1864-1 MS

Matrix: Solid

Analysis Batch: 17977

Client Sample ID: BF-31

Prep Type: Total/NA

Prep Batch: 17975

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1114		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	987.0		mg/Kg		97	70 - 130		
		</									

Lab Sample ID: 890-1864-1 MSD

Matrix: Solid

Analysis Batch: 17977

Client Sample ID: BF-31

Prep Type: Total/NA

Prep Batch: 17975

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1293		mg/Kg		130	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1159		mg/Kg		115	70 - 130	16	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1864-1 MSD

Matrix: Solid

Analysis Batch: 17977

Client Sample ID: BF-31

Prep Type: Total/NA

Prep Batch: 17975

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	69	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17771/1-A

Matrix: Solid

Analysis Batch: 17923

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			01/31/22 08:49		1

Lab Sample ID: LCS 880-17771/2-A

Matrix: Solid

Analysis Batch: 17923

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike	LCS	LCS				%Rec.	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	234.5		mg/Kg		94	90 - 110	

Lab Sample ID: LCSD 880-17771/3-A

Matrix: Solid

Analysis Batch: 17923

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte		Spike	LCSD	LCSD				%Rec.		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	223.0	*-	mg/Kg		89	90 - 110	5	20

Lab Sample ID: 890-1864-8 MS

Matrix: Solid

Analysis Batch: 17923

Client Sample ID: BF-38

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS				%Rec.	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	12.1	*-	250	248.4		mg/Kg		95	90 - 110	

Lab Sample ID: 890-1864-8 MSD

Matrix: Solid

Analysis Batch: 17923

Client Sample ID: BF-38

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	12.1	*-	250	253.7		mg/Kg		97	90 - 110	2	20

Lab Sample ID: 890-1864-18 MS

Matrix: Solid

Analysis Batch: 17923

Client Sample ID: BF-48

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS				%Rec.	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	8.19	*-	250	252.8		mg/Kg		98	90 - 110	

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1864-18 MSD

Matrix: Solid

Analysis Batch: 17923

Client Sample ID: BF-48

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.19	*-	250	239.9		mg/Kg		93	90 - 110	5	20

Lab Sample ID: MB 880-17768/1-A

Matrix: Solid

Analysis Batch: 18065

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/29/22 11:53	1

Lab Sample ID: LCS 880-17768/2-A

Matrix: Solid

Analysis Batch: 18065

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	264.4		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-17768/3-A

Matrix: Solid

Analysis Batch: 18065

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	265.5		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-10572-A-11-B MS

Matrix: Solid

Analysis Batch: 18065

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3290	F1	1260	5019	F1	mg/Kg		137	90 - 110

Lab Sample ID: 880-10572-A-11-C MSD

Matrix: Solid

Analysis Batch: 18065

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3290	F1	1260	5000	F1	mg/Kg		136	90 - 110	0	20

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

GC VOA

Prep Batch: 17746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-1	BF-31	Total/NA	Solid	5035	
890-1864-2	BF-32	Total/NA	Solid	5035	
890-1864-3	BF-33	Total/NA	Solid	5035	
890-1864-4	BF-34	Total/NA	Solid	5035	
890-1864-5	BF-35	Total/NA	Solid	5035	
890-1864-6	BF-36	Total/NA	Solid	5035	
890-1864-7	BF-37	Total/NA	Solid	5035	
890-1864-8	BF-38	Total/NA	Solid	5035	
890-1864-9	BF-39	Total/NA	Solid	5035	
890-1864-10	BF-40	Total/NA	Solid	5035	
890-1864-11	BF-41	Total/NA	Solid	5035	
890-1864-12	BF-42	Total/NA	Solid	5035	
MB 880-17746/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17746/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17746/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10601-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-10601-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-1	BF-31	Total/NA	Solid	8021B	17746
890-1864-2	BF-32	Total/NA	Solid	8021B	17746
890-1864-3	BF-33	Total/NA	Solid	8021B	17746
890-1864-4	BF-34	Total/NA	Solid	8021B	17746
890-1864-5	BF-35	Total/NA	Solid	8021B	17746
890-1864-6	BF-36	Total/NA	Solid	8021B	17746
890-1864-7	BF-37	Total/NA	Solid	8021B	17746
890-1864-8	BF-38	Total/NA	Solid	8021B	17746
890-1864-9	BF-39	Total/NA	Solid	8021B	17746
890-1864-10	BF-40	Total/NA	Solid	8021B	17746
890-1864-11	BF-41	Total/NA	Solid	8021B	17746
890-1864-12	BF-42	Total/NA	Solid	8021B	17746
890-1864-13	BF-43	Total/NA	Solid	8021B	17753
890-1864-14	BF-44	Total/NA	Solid	8021B	17753
890-1864-15	BF-45	Total/NA	Solid	8021B	17753
890-1864-16	BF-46	Total/NA	Solid	8021B	17753
MB 880-17746/5-A	Method Blank	Total/NA	Solid	8021B	17746
MB 880-17753/5-A	Method Blank	Total/NA	Solid	8021B	17753
LCS 880-17746/1-A	Lab Control Sample	Total/NA	Solid	8021B	17746
LCS 880-17753/1-A	Lab Control Sample	Total/NA	Solid	8021B	17753
LCSD 880-17746/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17746
LCSD 880-17753/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17753
880-10594-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	17753
880-10594-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17753
880-10601-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	17746
880-10601-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17746

Prep Batch: 17753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-13	BF-43	Total/NA	Solid	5035	
890-1864-14	BF-44	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

GC VOA (Continued)

Prep Batch: 17753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-15	BF-45	Total/NA	Solid	5035	
890-1864-16	BF-46	Total/NA	Solid	5035	
MB 880-17753/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17753/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17753/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10594-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-10594-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 17863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-17	BF-47	Total/NA	Solid	5035	
890-1864-18	BF-48	Total/NA	Solid	5035	
890-1864-19	BF-49	Total/NA	Solid	5035	
890-1864-20	BF-50	Total/NA	Solid	5035	
MB 880-17863/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17863/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17863/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10599-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
880-10599-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-17	BF-47	Total/NA	Solid	8021B	17863
890-1864-18	BF-48	Total/NA	Solid	8021B	17863
890-1864-19	BF-49	Total/NA	Solid	8021B	17863
890-1864-20	BF-50	Total/NA	Solid	8021B	17863
MB 880-17863/5-A	Method Blank	Total/NA	Solid	8021B	17863
LCS 880-17863/1-A	Lab Control Sample	Total/NA	Solid	8021B	17863
LCSD 880-17863/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17863
880-10599-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	17863
880-10599-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17863

Analysis Batch: 18058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-1	BF-31	Total/NA	Solid	Total BTEX	
890-1864-2	BF-32	Total/NA	Solid	Total BTEX	
890-1864-3	BF-33	Total/NA	Solid	Total BTEX	
890-1864-4	BF-34	Total/NA	Solid	Total BTEX	
890-1864-5	BF-35	Total/NA	Solid	Total BTEX	
890-1864-6	BF-36	Total/NA	Solid	Total BTEX	
890-1864-7	BF-37	Total/NA	Solid	Total BTEX	
890-1864-8	BF-38	Total/NA	Solid	Total BTEX	
890-1864-9	BF-39	Total/NA	Solid	Total BTEX	
890-1864-10	BF-40	Total/NA	Solid	Total BTEX	
890-1864-11	BF-41	Total/NA	Solid	Total BTEX	
890-1864-12	BF-42	Total/NA	Solid	Total BTEX	
890-1864-13	BF-43	Total/NA	Solid	Total BTEX	
890-1864-14	BF-44	Total/NA	Solid	Total BTEX	
890-1864-15	BF-45	Total/NA	Solid	Total BTEX	
890-1864-16	BF-46	Total/NA	Solid	Total BTEX	
890-1864-17	BF-47	Total/NA	Solid	Total BTEX	

Eurofins Carlsbad

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

GC VOA (Continued)

Analysis Batch: 18058 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-18	BF-48	Total/NA	Solid	Total BTEX	
890-1864-19	BF-49	Total/NA	Solid	Total BTEX	
890-1864-20	BF-50	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 17951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-1	BF-31	Total/NA	Solid	8015 NM	
890-1864-2	BF-32	Total/NA	Solid	8015 NM	
890-1864-3	BF-33	Total/NA	Solid	8015 NM	
890-1864-4	BF-34	Total/NA	Solid	8015 NM	
890-1864-5	BF-35	Total/NA	Solid	8015 NM	
890-1864-6	BF-36	Total/NA	Solid	8015 NM	
890-1864-7	BF-37	Total/NA	Solid	8015 NM	
890-1864-8	BF-38	Total/NA	Solid	8015 NM	
890-1864-9	BF-39	Total/NA	Solid	8015 NM	
890-1864-10	BF-40	Total/NA	Solid	8015 NM	
890-1864-11	BF-41	Total/NA	Solid	8015 NM	
890-1864-12	BF-42	Total/NA	Solid	8015 NM	
890-1864-13	BF-43	Total/NA	Solid	8015 NM	
890-1864-14	BF-44	Total/NA	Solid	8015 NM	
890-1864-15	BF-45	Total/NA	Solid	8015 NM	
890-1864-16	BF-46	Total/NA	Solid	8015 NM	
890-1864-17	BF-47	Total/NA	Solid	8015 NM	
890-1864-18	BF-48	Total/NA	Solid	8015 NM	
890-1864-19	BF-49	Total/NA	Solid	8015 NM	
890-1864-20	BF-50	Total/NA	Solid	8015 NM	

Prep Batch: 17975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-1	BF-31	Total/NA	Solid	8015NM Prep	
890-1864-2	BF-32	Total/NA	Solid	8015NM Prep	
890-1864-3	BF-33	Total/NA	Solid	8015NM Prep	
890-1864-4	BF-34	Total/NA	Solid	8015NM Prep	
890-1864-5	BF-35	Total/NA	Solid	8015NM Prep	
890-1864-6	BF-36	Total/NA	Solid	8015NM Prep	
890-1864-7	BF-37	Total/NA	Solid	8015NM Prep	
890-1864-8	BF-38	Total/NA	Solid	8015NM Prep	
890-1864-9	BF-39	Total/NA	Solid	8015NM Prep	
890-1864-10	BF-40	Total/NA	Solid	8015NM Prep	
890-1864-11	BF-41	Total/NA	Solid	8015NM Prep	
890-1864-12	BF-42	Total/NA	Solid	8015NM Prep	
890-1864-13	BF-43	Total/NA	Solid	8015NM Prep	
890-1864-14	BF-44	Total/NA	Solid	8015NM Prep	
890-1864-15	BF-45	Total/NA	Solid	8015NM Prep	
890-1864-16	BF-46	Total/NA	Solid	8015NM Prep	
890-1864-17	BF-47	Total/NA	Solid	8015NM Prep	
890-1864-18	BF-48	Total/NA	Solid	8015NM Prep	
890-1864-19	BF-49	Total/NA	Solid	8015NM Prep	
890-1864-20	BF-50	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

GC Semi VOA (Continued)

Prep Batch: 17975 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17975/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17975/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17975/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1864-1 MS	BF-31	Total/NA	Solid	8015NM Prep	
890-1864-1 MSD	BF-31	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-1	BF-31	Total/NA	Solid	8015B NM	17975
890-1864-2	BF-32	Total/NA	Solid	8015B NM	17975
890-1864-3	BF-33	Total/NA	Solid	8015B NM	17975
890-1864-4	BF-34	Total/NA	Solid	8015B NM	17975
890-1864-5	BF-35	Total/NA	Solid	8015B NM	17975
890-1864-6	BF-36	Total/NA	Solid	8015B NM	17975
890-1864-7	BF-37	Total/NA	Solid	8015B NM	17975
890-1864-8	BF-38	Total/NA	Solid	8015B NM	17975
890-1864-9	BF-39	Total/NA	Solid	8015B NM	17975
890-1864-10	BF-40	Total/NA	Solid	8015B NM	17975
890-1864-11	BF-41	Total/NA	Solid	8015B NM	17975
890-1864-12	BF-42	Total/NA	Solid	8015B NM	17975
890-1864-13	BF-43	Total/NA	Solid	8015B NM	17975
890-1864-14	BF-44	Total/NA	Solid	8015B NM	17975
890-1864-15	BF-45	Total/NA	Solid	8015B NM	17975
890-1864-16	BF-46	Total/NA	Solid	8015B NM	17975
890-1864-17	BF-47	Total/NA	Solid	8015B NM	17975
890-1864-18	BF-48	Total/NA	Solid	8015B NM	17975
890-1864-19	BF-49	Total/NA	Solid	8015B NM	17975
890-1864-20	BF-50	Total/NA	Solid	8015B NM	17975
MB 880-17975/1-A	Method Blank	Total/NA	Solid	8015B NM	17975
LCS 880-17975/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17975
LCSD 880-17975/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17975
890-1864-1 MS	BF-31	Total/NA	Solid	8015B NM	17975
890-1864-1 MSD	BF-31	Total/NA	Solid	8015B NM	17975

HPLC/IC

Leach Batch: 17768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-1	BF-31	Soluble	Solid	DI Leach	
890-1864-2	BF-32	Soluble	Solid	DI Leach	
890-1864-3	BF-33	Soluble	Solid	DI Leach	
890-1864-4	BF-34	Soluble	Solid	DI Leach	
890-1864-5	BF-35	Soluble	Solid	DI Leach	
890-1864-6	BF-36	Soluble	Solid	DI Leach	
890-1864-7	BF-37	Soluble	Solid	DI Leach	
MB 880-17768/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17768/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17768/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10572-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-10572-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 17771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-8	BF-38	Soluble	Solid	DI Leach	
890-1864-9	BF-39	Soluble	Solid	DI Leach	
890-1864-10	BF-40	Soluble	Solid	DI Leach	
890-1864-11	BF-41	Soluble	Solid	DI Leach	
890-1864-12	BF-42	Soluble	Solid	DI Leach	
890-1864-13	BF-43	Soluble	Solid	DI Leach	
890-1864-14	BF-44	Soluble	Solid	DI Leach	
890-1864-15	BF-45	Soluble	Solid	DI Leach	
890-1864-16	BF-46	Soluble	Solid	DI Leach	
890-1864-17	BF-47	Soluble	Solid	DI Leach	
890-1864-18	BF-48	Soluble	Solid	DI Leach	
890-1864-19	BF-49	Soluble	Solid	DI Leach	
890-1864-20	BF-50	Soluble	Solid	DI Leach	
MB 880-17771/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17771/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17771/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1864-8 MS	BF-38	Soluble	Solid	DI Leach	
890-1864-8 MSD	BF-38	Soluble	Solid	DI Leach	
890-1864-18 MS	BF-48	Soluble	Solid	DI Leach	
890-1864-18 MSD	BF-48	Soluble	Solid	DI Leach	

Analysis Batch: 17923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-8	BF-38	Soluble	Solid	300.0	17771
890-1864-9	BF-39	Soluble	Solid	300.0	17771
890-1864-10	BF-40	Soluble	Solid	300.0	17771
890-1864-11	BF-41	Soluble	Solid	300.0	17771
890-1864-12	BF-42	Soluble	Solid	300.0	17771
890-1864-13	BF-43	Soluble	Solid	300.0	17771
890-1864-14	BF-44	Soluble	Solid	300.0	17771
890-1864-15	BF-45	Soluble	Solid	300.0	17771
890-1864-16	BF-46	Soluble	Solid	300.0	17771
890-1864-17	BF-47	Soluble	Solid	300.0	17771
890-1864-18	BF-48	Soluble	Solid	300.0	17771
890-1864-19	BF-49	Soluble	Solid	300.0	17771
890-1864-20	BF-50	Soluble	Solid	300.0	17771
MB 880-17771/1-A	Method Blank	Soluble	Solid	300.0	17771
LCS 880-17771/2-A	Lab Control Sample	Soluble	Solid	300.0	17771
LCSD 880-17771/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17771
890-1864-8 MS	BF-38	Soluble	Solid	300.0	17771
890-1864-8 MSD	BF-38	Soluble	Solid	300.0	17771
890-1864-18 MS	BF-48	Soluble	Solid	300.0	17771
890-1864-18 MSD	BF-48	Soluble	Solid	300.0	17771

Analysis Batch: 18065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-1	BF-31	Soluble	Solid	300.0	17768
890-1864-2	BF-32	Soluble	Solid	300.0	17768
890-1864-3	BF-33	Soluble	Solid	300.0	17768
890-1864-4	BF-34	Soluble	Solid	300.0	17768
890-1864-5	BF-35	Soluble	Solid	300.0	17768

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

HPLC/IC (Continued)

Analysis Batch: 18065 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1864-6	BF-36	Soluble	Solid	300.0	17768
890-1864-7	BF-37	Soluble	Solid	300.0	17768
MB 880-17768/1-A	Method Blank	Soluble	Solid	300.0	17768
LCS 880-17768/2-A	Lab Control Sample	Soluble	Solid	300.0	17768
LCSD 880-17768/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17768
880-10572-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	17768
880-10572-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17768

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-31

Lab Sample ID: 890-1864-1

Date Collected: 01/24/22 13:21

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	17746	01/26/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/26/22 14:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 12:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17768	01/26/22 09:59	CH	XEN MID
Soluble	Analysis	300.0		1			18065	01/29/22 15:21	CH	XEN MID

Client Sample ID: BF-32

Lab Sample ID: 890-1864-2

Date Collected: 01/24/22 13:22

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	17746	01/26/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/26/22 15:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 13:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17768	01/26/22 09:59	CH	XEN MID
Soluble	Analysis	300.0		1			18065	01/29/22 15:29	CH	XEN MID

Client Sample ID: BF-33

Lab Sample ID: 890-1864-3

Date Collected: 01/24/22 13:23

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17746	01/26/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/26/22 17:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 14:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	17768	01/26/22 09:59	CH	XEN MID
Soluble	Analysis	300.0		1			18065	01/29/22 15:37	CH	XEN MID

Client Sample ID: BF-34

Lab Sample ID: 890-1864-4

Date Collected: 01/24/22 13:24

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17746	01/26/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/26/22 17:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-34

Lab Sample ID: 890-1864-4

Date Collected: 01/24/22 13:24

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 14:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17768	01/26/22 09:59	CH	XEN MID
Soluble	Analysis	300.0		1			18065	01/29/22 15:44	CH	XEN MID

Client Sample ID: BF-35

Lab Sample ID: 890-1864-5

Date Collected: 01/24/22 13:25

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17746	01/26/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/26/22 17:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 14:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17768	01/26/22 09:59	CH	XEN MID
Soluble	Analysis	300.0		1			18065	01/29/22 17:44	CH	XEN MID

Client Sample ID: BF-36

Lab Sample ID: 890-1864-6

Date Collected: 01/24/22 13:26

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	17746	01/26/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/26/22 18:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 15:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17768	01/26/22 10:00	CH	XEN MID
Soluble	Analysis	300.0		1			18065	01/29/22 15:59	CH	XEN MID

Client Sample ID: BF-37

Lab Sample ID: 890-1864-7

Date Collected: 01/24/22 13:27

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17746	01/26/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/26/22 18:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 15:44	AJ	XEN MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-37**Lab Sample ID: 890-1864-7****Date Collected: 01/24/22 13:27****Matrix: Solid****Date Received: 01/24/22 14:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	17768	01/26/22 10:00	CH	XEN MID
Soluble	Analysis	300.0		1			18065	01/29/22 16:07	CH	XEN MID

Client Sample ID: BF-38**Lab Sample ID: 890-1864-8****Date Collected: 01/24/22 13:28****Matrix: Solid****Date Received: 01/24/22 14:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17746	01/26/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/26/22 18:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 16:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 09:25	CH	XEN MID

Client Sample ID: BF-39**Lab Sample ID: 890-1864-9****Date Collected: 01/24/22 13:29****Matrix: Solid****Date Received: 01/24/22 14:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17746	01/26/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/26/22 19:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 16:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 10:00	CH	XEN MID

Client Sample ID: BF-40**Lab Sample ID: 890-1864-10****Date Collected: 01/24/22 13:30****Matrix: Solid****Date Received: 01/24/22 14:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	17746	01/26/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/26/22 19:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 16:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 10:12	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-41

Lab Sample ID: 890-1864-11

Date Collected: 01/24/22 13:31

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17746	01/26/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/26/22 19:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 17:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 10:24	CH	XEN MID

Client Sample ID: BF-42

Lab Sample ID: 890-1864-12

Date Collected: 01/24/22 13:32

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	17746	01/26/22 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/26/22 20:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 17:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 10:36	CH	XEN MID

Client Sample ID: BF-43

Lab Sample ID: 890-1864-13

Date Collected: 01/24/22 13:33

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17753	01/26/22 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/27/22 06:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 18:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 11:11	CH	XEN MID

Client Sample ID: BF-44

Lab Sample ID: 890-1864-14

Date Collected: 01/24/22 13:34

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17753	01/26/22 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/27/22 07:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-44

Lab Sample ID: 890-1864-14

Date Collected: 01/24/22 13:34

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 11:23	CH	XEN MID

Client Sample ID: BF-45

Lab Sample ID: 890-1864-15

Date Collected: 01/24/22 13:35

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17753	01/26/22 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/27/22 07:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 19:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 11:35	CH	XEN MID

Client Sample ID: BF-46

Lab Sample ID: 890-1864-16

Date Collected: 01/24/22 13:36

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	17753	01/26/22 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17747	01/27/22 07:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 11:47	CH	XEN MID

Client Sample ID: BF-47

Lab Sample ID: 890-1864-17

Date Collected: 01/24/22 13:37

Matrix: Solid

Date Received: 01/24/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	17863	01/27/22 08:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17867	01/27/22 16:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 19:45	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Client Sample ID: BF-47**Lab Sample ID: 890-1864-17****Date Collected: 01/24/22 13:37****Matrix: Solid****Date Received: 01/24/22 14:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 11:59	CH	XEN MID

Client Sample ID: BF-48**Lab Sample ID: 890-1864-18****Date Collected: 01/24/22 13:38****Matrix: Solid****Date Received: 01/24/22 14:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17863	01/27/22 08:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17867	01/27/22 16:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 20:06	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 12:10	CH	XEN MID

Client Sample ID: BF-49**Lab Sample ID: 890-1864-19****Date Collected: 01/24/22 13:39****Matrix: Solid****Date Received: 01/24/22 14:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17863	01/27/22 08:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17867	01/27/22 17:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 20:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 12:46	CH	XEN MID

Client Sample ID: BF-50**Lab Sample ID: 890-1864-20****Date Collected: 01/24/22 13:40****Matrix: Solid****Date Received: 01/24/22 14:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17863	01/27/22 08:03	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17867	01/27/22 17:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17975	01/28/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/28/22 20:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 12:58	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST Backfill

Job ID: 890-1864-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1864-1	BF-31	Solid	01/24/22 13:21	01/24/22 14:50
890-1864-2	BF-32	Solid	01/24/22 13:22	01/24/22 14:50
890-1864-3	BF-33	Solid	01/24/22 13:23	01/24/22 14:50
890-1864-4	BF-34	Solid	01/24/22 13:24	01/24/22 14:50
890-1864-5	BF-35	Solid	01/24/22 13:25	01/24/22 14:50
890-1864-6	BF-36	Solid	01/24/22 13:26	01/24/22 14:50
890-1864-7	BF-37	Solid	01/24/22 13:27	01/24/22 14:50
890-1864-8	BF-38	Solid	01/24/22 13:28	01/24/22 14:50
890-1864-9	BF-39	Solid	01/24/22 13:29	01/24/22 14:50
890-1864-10	BF-40	Solid	01/24/22 13:30	01/24/22 14:50
890-1864-11	BF-41	Solid	01/24/22 13:31	01/24/22 14:50
890-1864-12	BF-42	Solid	01/24/22 13:32	01/24/22 14:50
890-1864-13	BF-43	Solid	01/24/22 13:33	01/24/22 14:50
890-1864-14	BF-44	Solid	01/24/22 13:34	01/24/22 14:50
890-1864-15	BF-45	Solid	01/24/22 13:35	01/24/22 14:50
890-1864-16	BF-46	Solid	01/24/22 13:36	01/24/22 14:50
890-1864-17	BF-47	Solid	01/24/22 13:37	01/24/22 14:50
890-1864-18	BF-48	Solid	01/24/22 13:38	01/24/22 14:50
890-1864-19	BF-49	Solid	01/24/22 13:39	01/24/22 14:50
890-1864-20	BF-50	Solid	01/24/22 13:40	01/24/22 14:50

Cooling in progress:

507 N. Marienfeld, Ste. 202

Midland, TX 79701

432-687-0901

DATE: 11/24/2022

PO#

PROJECT LOCATION OR NAME

LAI PROJECT #: 21-0105-02

LAB WORK ORDER#

PALMIST ASST - BACKFELL

COLLECTOR: hsg

PAGE 1 OF 2

CHAIN-OF-CUSTODY

No. 2257

1/31/2022

TRRP report? ☐ Yes ☒ No		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER	
TIME ZONE Time zone/State MST/NM		Lab #		Date	
Field Sample I D		Time		Matrix	
3E-31		112422		1321	
3E-32				1322	
3E-33				1323	
3E-34				1324	
3E-35				1325	
3E-36				1326	
3E-37				1327	
3E-38				1328	
3E-39				1329	
3E-40				1330	
3E-41				1331	
3E-42				1332	
3E-43				1333	
3E-44				1334	
3E-45				1335	
TOTAL 15					
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)	
LABORATORY		XEND		890-1864 Chain of Custody	
TURN AROUND TIME		NORMAL		LABORATORY USE ONLY	
1 DAY		2 DAY		RECEIVING TEMP	
OTHER				CUSTODY SEALS - BROKEN INTACT	
HAND DELIVERED				THERM#	
				I-1120	
				NOT USED	
				FIELD NOTES	

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Cooling in progress

CHAIN-OF-CUSTODY

No. 2258

Varson & Associates, Inc.
Environmental Consultants507 N. Marientfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 11/21/2012 PAGE 2 OF 2
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Palmer A-51 - Backfill
LAI PROJECT #: 21-0105-02 COLLECTOR: DJGTRRP report?
☐ Yes ☒ NoTIME ZONE
Time zone/StateS=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

WST/MM

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX ☐ MTBE ☐TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐GASOLINE MOD 8015 ☐DIESEL - MOD 8015 ☐OIL - MOD 8015 ☐VOC 8260 ☐SVOC 8270 ☐8081 PESTICIDES ☐8082 PESTICIDES ☐TCIP - PCBs ☐TCIP - METALS (RCRA) ☐TOTAL METALS (RCRA) ☐LEAD - TOTAL ☐RCI ☐TDS ☐pH ☐FLASHPOINT ☐% MOISTURE ☐CYANIDE ☐TCLP VOC ☐OTHER LIST ☐TCLP ☐HEXAVALENT CHROMIUM ☐PECHLORATE ☐ANIONS ☐ALKALINITY ☐

FIELD NOTES

BF-46
BF-47
BF-48
BF-49
BF-50

11/21/22

1336
1338
1339
1340

S

1

X

X

X

X

X

X

X

X

X

X

X

X

TOTAL 5

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP: 72/120 THERM# TE-M-007

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP: 72/120 THERM# TE-M-007

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP: 72/120 THERM# TE-M-007LABORATORY: XENCO

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

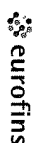
RECEIVING TEMP: 72/120 THERM# TE-M-007

Eurofins Carlsbad

1089 N Canal St

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



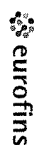
Environment Testing America

Client Information (Sub Contract Lab)			Sampler		Lab PM		Carrier Tracking No(s)		COC No	
Client Contact			Phone		Taylor Holly				890-600 1	
Shipping/Receiving			E-Mail		holly.taylor@eurofinsnet.com		State of Origin:		Page 1 of 3	
Eurofins Environment Testing South Cent			Accreditations Required (See note)		NELAP - Louisiana, NELAP - Texas		New Mexico		Page 1 of 3	
Address: 1211 W. Florida Ave.			Due Date Requested		1/28/2022		Job #		890-1864-1	
City: Midland			TAT Requested (days):				Analysis Requested			
State, Zip: TX, 79701										
Phone: 432-704-5440(Tel)			PO #:							
Email:			WO #:							
Project Name: Palmito AST Backfill			Project #:		89000025					
Site:			SSOW#:							
Sample Identification - Client ID (Lab ID)			Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=oil, BT=Trisec, A=Air)	
BF-31 (890-1864-1)			1/24/22		13 21		Mountain		Solid	
BF-32 (890-1864-2)			1/24/22		13 22		Mountain		Solid	
BF-33 (890-1864-3)			1/24/22		13 23		Mountain		Solid	
BF-34 (890-1864-4)			1/24/22		13 24		Mountain		Solid	
BF-35 (890-1864-5)			1/24/22		13 25		Mountain		Solid	
BF-36 (890-1864-6)			1/24/22		13 26		Mountain		Solid	
BF-37 (890-1864-7)			1/24/22		13 27		Mountain		Solid	
BF-38 (890-1864-8)			1/24/22		13 28		Mountain		Solid	
BF-39 (890-1864-9)			1/24/22		13 29		Mountain		Solid	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the sample must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I, II, III, IV Other (specify)			Primary Deliverable Rank 2							
Empty Kit Relinquished by:			Date		Time		Method of Shipment:			
Relinquished by: <i>[Signature]</i>			1/28/22				Received by: <i>[Signature]</i>		Date/Time: 1/28/22	
Relinquished by:			Date/Time		Company		Received by:		Date/Time	
Relinquished by:			Date/Time		Company		Received by:		Date/Time	
Custody Seals Intact: ☐ Yes ☐ No			Custody Seal No				Cooler Temperature(s) °C and Other Remarks: 3.0/3.7			

Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone. 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



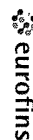
**Environment™ Testing
America**

[illegible]

Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1864-1

SDG Number: 21-0105-02

Login Number: 1864

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-1864-1

SDG Number: 21-0105-02

Login Number: 1864

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 01/26/22 11:25 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-10747-1
Laboratory Sample Delivery Group: 21-0105-02
Client Project/Site: Palmio AST- Backfull

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

A handwritten signature in cursive script that reads "Holly Taylor".

Authorized for release by:
2/7/2022 8:19:37 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Laboratory Job ID: 880-10747-1
SDG: 21-0105-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Job ID: 880-10747-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-10747-1**

Receipt

The samples were received on 1/31/2022 2:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-10734-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BF-51 (880-10747-1), BF-52 (880-10747-2), BF-53 (880-10747-3), BF-54 (880-10747-4), BF-55 (880-10747-5), (880-10734-A-1-F MS) and (880-10734-A-1-G MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18219 and analytical batch 880-18525 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Client Sample ID: BF-51

Lab Sample ID: 880-10747-1

Date Collected: 01/28/22 08:41

Matrix: Solid

Date Received: 01/31/22 14:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 13:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 13:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 13:40	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/01/22 11:00	02/01/22 13:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 13:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/01/22 11:00	02/01/22 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	02/01/22 11:00	02/01/22 13:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/01/22 11:00	02/01/22 13:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/04/22 14:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/03/22 11:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/01/22 22:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/01/22 22:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/01/22 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	63	S1-	70 - 130	02/01/22 13:25	02/01/22 22:24	1
o-Terphenyl (Surr)	71		70 - 130	02/01/22 13:25	02/01/22 22:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	187		4.97	mg/Kg			02/04/22 13:42	1

Client Sample ID: BF-52

Lab Sample ID: 880-10747-2

Date Collected: 01/28/22 08:42

Matrix: Solid

Date Received: 01/31/22 14:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 14:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 14:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 14:01	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/01/22 11:00	02/01/22 14:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 14:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/01/22 11:00	02/01/22 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/01/22 11:00	02/01/22 14:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/01/22 11:00	02/01/22 14:01	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Client Sample ID: BF-52

Lab Sample ID: 880-10747-2

Date Collected: 01/28/22 08:42

Matrix: Solid

Date Received: 01/31/22 14:32

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/04/22 14:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/03/22 11:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/01/22 22:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/01/22 22:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/01/22 22:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	65	S1-	70 - 130			02/01/22 13:25	02/01/22 22:46	1
o-Terphenyl (Surr)	75		70 - 130			02/01/22 13:25	02/01/22 22:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		4.97	mg/Kg			02/04/22 14:05	1

Client Sample ID: BF-53

Lab Sample ID: 880-10747-3

Date Collected: 01/28/22 08:43

Matrix: Solid

Date Received: 01/31/22 14:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/01/22 11:00	02/01/22 14:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/01/22 11:00	02/01/22 14:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/01/22 11:00	02/01/22 14:21	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/01/22 11:00	02/01/22 14:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/01/22 11:00	02/01/22 14:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/01/22 11:00	02/01/22 14:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			02/01/22 11:00	02/01/22 14:21	1
1,4-Difluorobenzene (Surr)	94		70 - 130			02/01/22 11:00	02/01/22 14:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/04/22 14:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/03/22 11:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/01/22 23:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/01/22 23:09	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Client Sample ID: BF-53

Lab Sample ID: 880-10747-3

Date Collected: 01/28/22 08:43

Matrix: Solid

Date Received: 01/31/22 14:32

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/01/22 23:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	66	S1-	70 - 130			02/01/22 13:25	02/01/22 23:09	1
o-Terphenyl (Surr)	75		70 - 130			02/01/22 13:25	02/01/22 23:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.00	mg/Kg			02/04/22 14:12	1

Client Sample ID: BF-54

Lab Sample ID: 880-10747-4

Date Collected: 01/28/22 08:44

Matrix: Solid

Date Received: 01/31/22 14:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 14:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 14:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 14:42	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/01/22 11:00	02/01/22 14:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 14:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/01/22 11:00	02/01/22 14:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130			02/01/22 11:00	02/01/22 14:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130			02/01/22 11:00	02/01/22 14:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			02/04/22 14:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/03/22 11:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/01/22 23:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/01/22 23:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/01/22 23:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	65	S1-	70 - 130			02/01/22 13:25	02/01/22 23:31	1
o-Terphenyl (Surr)	75		70 - 130			02/01/22 13:25	02/01/22 23:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		4.99	mg/Kg			02/04/22 14:20	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Client Sample ID: BF-55

Lab Sample ID: 880-10747-5

Date Collected: 01/28/22 08:45

Matrix: Solid

Date Received: 01/31/22 14:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 16:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 16:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 16:05	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		02/01/22 11:00	02/01/22 16:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 16:05	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/01/22 11:00	02/01/22 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	02/01/22 11:00	02/01/22 16:05	1
1,4-Difluorobenzene (Surr)	78		70 - 130	02/01/22 11:00	02/01/22 16:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/04/22 14:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/03/22 11:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/01/22 23:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/01/22 23:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/01/22 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130	02/01/22 13:25	02/01/22 23:54	1
o-Terphenyl (Surr)	78		70 - 130	02/01/22 13:25	02/01/22 23:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		5.02	mg/Kg			02/04/22 14:27	1

Client Sample ID: BF-56

Lab Sample ID: 880-10747-6

Date Collected: 01/28/22 08:46

Matrix: Solid

Date Received: 01/31/22 14:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 16:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 16:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 16:25	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/01/22 11:00	02/01/22 16:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 16:25	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/01/22 11:00	02/01/22 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	02/01/22 11:00	02/01/22 16:25	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/01/22 11:00	02/01/22 16:25	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Client Sample ID: BF-56

Lab Sample ID: 880-10747-6

Date Collected: 01/28/22 08:46

Matrix: Solid

Date Received: 01/31/22 14:32

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/04/22 14:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/03/22 11:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/02/22 00:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/02/22 00:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/02/22 00:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	70		70 - 130			02/01/22 13:25	02/02/22 00:16	1
o-Terphenyl (Surr)	80		70 - 130			02/01/22 13:25	02/02/22 00:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		5.02	mg/Kg			02/04/22 14:35	1

Client Sample ID: BF-57

Lab Sample ID: 880-10747-7

Date Collected: 01/28/22 08:47

Matrix: Solid

Date Received: 01/31/22 14:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/01/22 11:00	02/01/22 16:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/01/22 11:00	02/01/22 16:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/01/22 11:00	02/01/22 16:46	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/01/22 11:00	02/01/22 16:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/01/22 11:00	02/01/22 16:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/01/22 11:00	02/01/22 16:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			02/01/22 11:00	02/01/22 16:46	1
1,4-Difluorobenzene (Surr)	77		70 - 130			02/01/22 11:00	02/01/22 16:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/04/22 14:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/03/22 11:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/02/22 01:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/02/22 01:00	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Client Sample ID: BF-57

Lab Sample ID: 880-10747-7

Date Collected: 01/28/22 08:47

Matrix: Solid

Date Received: 01/31/22 14:32

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/02/22 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130			02/01/22 13:25	02/02/22 01:00	1
o-Terphenyl (Surr)	85		70 - 130			02/01/22 13:25	02/02/22 01:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		5.02	mg/Kg			02/04/22 14:42	1

Client Sample ID: BF-58

Lab Sample ID: 880-10747-8

Date Collected: 01/28/22 08:48

Matrix: Solid

Date Received: 01/31/22 14:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/01/22 11:00	02/01/22 17:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/01/22 11:00	02/01/22 17:06	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/01/22 11:00	02/01/22 17:06	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		02/01/22 11:00	02/01/22 17:06	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/01/22 11:00	02/01/22 17:06	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/01/22 11:00	02/01/22 17:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			02/01/22 11:00	02/01/22 17:06	1
1,4-Difluorobenzene (Surr)	92		70 - 130			02/01/22 11:00	02/01/22 17:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			02/04/22 14:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/03/22 11:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/02/22 01:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/02/22 01:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/02/22 01:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	72		70 - 130			02/01/22 13:25	02/02/22 01:22	1
o-Terphenyl (Surr)	83		70 - 130			02/01/22 13:25	02/02/22 01:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.05	mg/Kg			02/04/22 14:50	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Client Sample ID: BF-59

Lab Sample ID: 880-10747-9

Date Collected: 01/28/22 08:49

Matrix: Solid

Date Received: 01/31/22 14:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/01/22 11:00	02/01/22 17:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/01/22 11:00	02/01/22 17:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/01/22 11:00	02/01/22 17:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/01/22 11:00	02/01/22 17:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/01/22 11:00	02/01/22 17:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/01/22 11:00	02/01/22 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	02/01/22 11:00	02/01/22 17:27	1
1,4-Difluorobenzene (Surr)	60	S1-	70 - 130	02/01/22 11:00	02/01/22 17:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/04/22 14:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/03/22 11:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/02/22 01:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/02/22 01:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/01/22 13:25	02/02/22 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	72		70 - 130	02/01/22 13:25	02/02/22 01:44	1
o-Terphenyl (Surr)	83		70 - 130	02/01/22 13:25	02/02/22 01:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112	F1	4.95	mg/Kg			02/04/22 01:50	1

Client Sample ID: BF-60

Lab Sample ID: 880-10747-10

Date Collected: 01/28/22 08:50

Matrix: Solid

Date Received: 01/31/22 14:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 17:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 17:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 17:47	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/01/22 11:00	02/01/22 17:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/22 11:00	02/01/22 17:47	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/01/22 11:00	02/01/22 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	173	S1+	70 - 130	02/01/22 11:00	02/01/22 17:47	1
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130	02/01/22 11:00	02/01/22 17:47	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Client Sample ID: BF-60

Lab Sample ID: 880-10747-10

Date Collected: 01/28/22 08:50

Matrix: Solid

Date Received: 01/31/22 14:32

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/04/22 14:16	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/03/22 11:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/02/22 02:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/02/22 02:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/02/22 02:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130			02/01/22 13:25	02/02/22 02:05	1
o-Terphenyl (Surr)	84		70 - 130			02/01/22 13:25	02/02/22 02:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		5.00	mg/Kg			02/04/22 02:09	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-10734-A-1-A MS	Matrix Spike	115	106				
880-10734-A-1-B MSD	Matrix Spike Duplicate	152 S1+	113				
880-10747-1	BF-51	119	95				
880-10747-2	BF-52	104	97				
880-10747-3	BF-53	110	94				
880-10747-4	BF-54	55 S1-	104				
880-10747-5	BF-55	102	78				
880-10747-6	BF-56	110	99				
880-10747-7	BF-57	109	77				
880-10747-8	BF-58	114	92				
880-10747-9	BF-59	100	60 S1-				
880-10747-10	BF-60	173 S1+	131 S1+				
LCS 880-18173/1-A	Lab Control Sample	103	95				
LCSD 880-18173/2-A	Lab Control Sample Dup	97	105				
MB 880-18173/5-A	Method Blank	100	100				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	1CO1	OTPH1						
		(70-130)	(70-130)						
880-10734-A-1-F MS	Matrix Spike	63 S1-	64 S1-						
880-10734-A-1-G MSD	Matrix Spike Duplicate	64 S1-	65 S1-						
880-10747-1	BF-51	63 S1-	71						
880-10747-2	BF-52	65 S1-	75						
880-10747-3	BF-53	66 S1-	75						
880-10747-4	BF-54	65 S1-	75						
880-10747-5	BF-55	69 S1-	78						
880-10747-6	BF-56	70	80						
880-10747-7	BF-57	74	85						
880-10747-8	BF-58	72	83						
880-10747-9	BF-59	72	83						
880-10747-10	BF-60	73	84						
LCS 880-18288/2-A	Lab Control Sample	88	93						
LCSD 880-18288/3-A	Lab Control Sample Dup	86	90						
MB 880-18288/1-A	Method Blank	81	94						
Surrogate Legend									
1CO = 1-Chlorooctane (Surr)									
OTPH = o-Terphenyl (Surr)									

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18173/5-A

Matrix: Solid

Analysis Batch: 18229

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18173

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/01/22 07:30	02/01/22 11:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/01/22 07:30	02/01/22 11:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/01/22 07:30	02/01/22 11:16	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/01/22 07:30	02/01/22 11:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/01/22 07:30	02/01/22 11:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/01/22 07:30	02/01/22 11:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	02/01/22 07:30	02/01/22 11:16	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/01/22 07:30	02/01/22 11:16	1

Lab Sample ID: LCS 880-18173/1-A

Matrix: Solid

Analysis Batch: 18229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08127		mg/Kg		81	70 - 130
Toluene	0.100	0.07937		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.07385		mg/Kg		74	70 - 130
m,p-Xylenes	0.200	0.1487		mg/Kg		74	70 - 130
o-Xylene	0.100	0.07610		mg/Kg		76	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-18173/2-A

Matrix: Solid

Analysis Batch: 18229

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18173

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08507		mg/Kg		85	70 - 130	5	35
Toluene	0.100	0.07653		mg/Kg		77	70 - 130	4	35
Ethylbenzene	0.100	0.07328		mg/Kg		73	70 - 130	1	35
m,p-Xylenes	0.200	0.1480		mg/Kg		74	70 - 130	0	35
o-Xylene	0.100	0.07261		mg/Kg		73	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-10734-A-1-A MS

Matrix: Solid

Analysis Batch: 18229

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U	0.100	0.07517		mg/Kg		75	70 - 130
Toluene	<0.00202	U	0.100	0.07063		mg/Kg		70	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-10734-A-1-A MS

Matrix: Solid

Analysis Batch: 18229

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00202	U	0.100	0.07058		mg/Kg		71	70 - 130
m,p-Xylenes	<0.00404	U	0.200	0.1505		mg/Kg		75	70 - 130
o-Xylene	<0.00202	U	0.100	0.07254		mg/Kg		73	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-10734-A-1-B MSD

Matrix: Solid

Analysis Batch: 18229

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18173

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0998	0.08802		mg/Kg		88	70 - 130	16	35
Toluene	<0.00202	U	0.0998	0.09875		mg/Kg		98	70 - 130	33	35
Ethylbenzene	<0.00202	U	0.0998	0.09415		mg/Kg		94	70 - 130	29	35
m,p-Xylenes	<0.00404	U	0.200	0.1890		mg/Kg		95	70 - 130	23	35
o-Xylene	<0.00202	U	0.0998	0.1036		mg/Kg		104	70 - 130	35	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-18288/1-A

Matrix: Solid

Analysis Batch: 18225

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18288

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/01/22 19:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/01/22 19:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/01/22 13:25	02/01/22 19:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	02/01/22 13:25	02/01/22 19:10	1
o-Terphenyl (Surr)	94		70 - 130	02/01/22 13:25	02/01/22 19:10	1

Lab Sample ID: LCS 880-18288/2-A

Matrix: Solid

Analysis Batch: 18225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	837.8		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1109		mg/Kg		111	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-18288/2-A
Matrix: Solid
Analysis Batch: 18225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18288

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-18288/3-A
Matrix: Solid
Analysis Batch: 18225

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 18288

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	859.7		mg/Kg		86	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1079		mg/Kg		108	70 - 130	3	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	86		70 - 130
o-Terphenyl (Surr)	90		70 - 130

Lab Sample ID: 880-10734-A-1-F MS
Matrix: Solid
Analysis Batch: 18225

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 18288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	812.0		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	934.4		mg/Kg		92	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	63	S1-	70 - 130
o-Terphenyl (Surr)	64	S1-	70 - 130

Lab Sample ID: 880-10734-A-1-G MSD
Matrix: Solid
Analysis Batch: 18225

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 18288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	777.8		mg/Kg		75	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	956.3		mg/Kg		94	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	64	S1-	70 - 130
o-Terphenyl (Surr)	65	S1-	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18219/1-A

Matrix: Solid

Analysis Batch: 18525

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/04/22 01:32	1

Lab Sample ID: LCS 880-18219/2-A

Matrix: Solid

Analysis Batch: 18525

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	243.7		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-18219/3-A

Matrix: Solid

Analysis Batch: 18525

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.9		mg/Kg		104	90 - 110	6	20

Lab Sample ID: 880-10747-9 MS

Matrix: Solid

Analysis Batch: 18525

Client Sample ID: BF-59

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	112	F1	248	344.2		mg/Kg		94	90 - 110

Lab Sample ID: 880-10747-9 MSD

Matrix: Solid

Analysis Batch: 18525

Client Sample ID: BF-59

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	112	F1	248	314.0	F1	mg/Kg		82	90 - 110	9	20

Lab Sample ID: MB 880-18217/1-A

Matrix: Solid

Analysis Batch: 18554

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/04/22 10:15	1

Lab Sample ID: LCS 880-18217/2-A

Matrix: Solid

Analysis Batch: 18554

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	274.5		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-18217/3-A

Matrix: Solid

Analysis Batch: 18554

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	274.7		mg/Kg		110	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-10743-A-1-B MS										Client Sample ID: Matrix Spike		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 18554												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits			
Chloride	284		251	545.4		mg/Kg		104	90 - 110			

Lab Sample ID: 880-10743-A-1-C MSD										Client Sample ID: Matrix Spike Duplicate		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 18554												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	284		251	545.2		mg/Kg		104	90 - 110	0	20	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

GC VOA

Prep Batch: 18173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10747-1	BF-51	Total/NA	Solid	5035	
880-10747-2	BF-52	Total/NA	Solid	5035	
880-10747-3	BF-53	Total/NA	Solid	5035	
880-10747-4	BF-54	Total/NA	Solid	5035	
880-10747-5	BF-55	Total/NA	Solid	5035	
880-10747-6	BF-56	Total/NA	Solid	5035	
880-10747-7	BF-57	Total/NA	Solid	5035	
880-10747-8	BF-58	Total/NA	Solid	5035	
880-10747-9	BF-59	Total/NA	Solid	5035	
880-10747-10	BF-60	Total/NA	Solid	5035	
MB 880-18173/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18173/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18173/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10734-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-10734-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 18229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10747-1	BF-51	Total/NA	Solid	8021B	18173
880-10747-2	BF-52	Total/NA	Solid	8021B	18173
880-10747-3	BF-53	Total/NA	Solid	8021B	18173
880-10747-4	BF-54	Total/NA	Solid	8021B	18173
880-10747-5	BF-55	Total/NA	Solid	8021B	18173
880-10747-6	BF-56	Total/NA	Solid	8021B	18173
880-10747-7	BF-57	Total/NA	Solid	8021B	18173
880-10747-8	BF-58	Total/NA	Solid	8021B	18173
880-10747-9	BF-59	Total/NA	Solid	8021B	18173
880-10747-10	BF-60	Total/NA	Solid	8021B	18173
MB 880-18173/5-A	Method Blank	Total/NA	Solid	8021B	18173
LCS 880-18173/1-A	Lab Control Sample	Total/NA	Solid	8021B	18173
LCSD 880-18173/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18173
880-10734-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	18173
880-10734-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18173

Analysis Batch: 18599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10747-1	BF-51	Total/NA	Solid	Total BTEX	
880-10747-2	BF-52	Total/NA	Solid	Total BTEX	
880-10747-3	BF-53	Total/NA	Solid	Total BTEX	
880-10747-4	BF-54	Total/NA	Solid	Total BTEX	
880-10747-5	BF-55	Total/NA	Solid	Total BTEX	
880-10747-6	BF-56	Total/NA	Solid	Total BTEX	
880-10747-7	BF-57	Total/NA	Solid	Total BTEX	
880-10747-8	BF-58	Total/NA	Solid	Total BTEX	
880-10747-9	BF-59	Total/NA	Solid	Total BTEX	
880-10747-10	BF-60	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

GC Semi VOA

Analysis Batch: 18225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10747-1	BF-51	Total/NA	Solid	8015B NM	18288
880-10747-2	BF-52	Total/NA	Solid	8015B NM	18288
880-10747-3	BF-53	Total/NA	Solid	8015B NM	18288
880-10747-4	BF-54	Total/NA	Solid	8015B NM	18288
880-10747-5	BF-55	Total/NA	Solid	8015B NM	18288
880-10747-6	BF-56	Total/NA	Solid	8015B NM	18288
880-10747-7	BF-57	Total/NA	Solid	8015B NM	18288
880-10747-8	BF-58	Total/NA	Solid	8015B NM	18288
880-10747-9	BF-59	Total/NA	Solid	8015B NM	18288
880-10747-10	BF-60	Total/NA	Solid	8015B NM	18288
MB 880-18288/1-A	Method Blank	Total/NA	Solid	8015B NM	18288
LCS 880-18288/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18288
LCSD 880-18288/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18288
880-10734-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	18288
880-10734-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18288

Prep Batch: 18288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10747-1	BF-51	Total/NA	Solid	8015NM Prep	
880-10747-2	BF-52	Total/NA	Solid	8015NM Prep	
880-10747-3	BF-53	Total/NA	Solid	8015NM Prep	
880-10747-4	BF-54	Total/NA	Solid	8015NM Prep	
880-10747-5	BF-55	Total/NA	Solid	8015NM Prep	
880-10747-6	BF-56	Total/NA	Solid	8015NM Prep	
880-10747-7	BF-57	Total/NA	Solid	8015NM Prep	
880-10747-8	BF-58	Total/NA	Solid	8015NM Prep	
880-10747-9	BF-59	Total/NA	Solid	8015NM Prep	
880-10747-10	BF-60	Total/NA	Solid	8015NM Prep	
MB 880-18288/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18288/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18288/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10734-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10734-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10747-1	BF-51	Total/NA	Solid	8015 NM	
880-10747-2	BF-52	Total/NA	Solid	8015 NM	
880-10747-3	BF-53	Total/NA	Solid	8015 NM	
880-10747-4	BF-54	Total/NA	Solid	8015 NM	
880-10747-5	BF-55	Total/NA	Solid	8015 NM	
880-10747-6	BF-56	Total/NA	Solid	8015 NM	
880-10747-7	BF-57	Total/NA	Solid	8015 NM	
880-10747-8	BF-58	Total/NA	Solid	8015 NM	
880-10747-9	BF-59	Total/NA	Solid	8015 NM	
880-10747-10	BF-60	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

HPLC/IC

Leach Batch: 18217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10747-1	BF-51	Soluble	Solid	DI Leach	
880-10747-2	BF-52	Soluble	Solid	DI Leach	
880-10747-3	BF-53	Soluble	Solid	DI Leach	
880-10747-4	BF-54	Soluble	Solid	DI Leach	
880-10747-5	BF-55	Soluble	Solid	DI Leach	
880-10747-6	BF-56	Soluble	Solid	DI Leach	
880-10747-7	BF-57	Soluble	Solid	DI Leach	
880-10747-8	BF-58	Soluble	Solid	DI Leach	
MB 880-18217/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18217/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18217/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10743-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-10743-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 18219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10747-9	BF-59	Soluble	Solid	DI Leach	
880-10747-10	BF-60	Soluble	Solid	DI Leach	
MB 880-18219/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18219/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18219/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10747-9 MS	BF-59	Soluble	Solid	DI Leach	
880-10747-9 MSD	BF-59	Soluble	Solid	DI Leach	

Analysis Batch: 18525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10747-9	BF-59	Soluble	Solid	300.0	18219
880-10747-10	BF-60	Soluble	Solid	300.0	18219
MB 880-18219/1-A	Method Blank	Soluble	Solid	300.0	18219
LCS 880-18219/2-A	Lab Control Sample	Soluble	Solid	300.0	18219
LCSD 880-18219/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18219
880-10747-9 MS	BF-59	Soluble	Solid	300.0	18219
880-10747-9 MSD	BF-59	Soluble	Solid	300.0	18219

Analysis Batch: 18554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10747-1	BF-51	Soluble	Solid	300.0	18217
880-10747-2	BF-52	Soluble	Solid	300.0	18217
880-10747-3	BF-53	Soluble	Solid	300.0	18217
880-10747-4	BF-54	Soluble	Solid	300.0	18217
880-10747-5	BF-55	Soluble	Solid	300.0	18217
880-10747-6	BF-56	Soluble	Solid	300.0	18217
880-10747-7	BF-57	Soluble	Solid	300.0	18217
880-10747-8	BF-58	Soluble	Solid	300.0	18217
MB 880-18217/1-A	Method Blank	Soluble	Solid	300.0	18217
LCS 880-18217/2-A	Lab Control Sample	Soluble	Solid	300.0	18217
LCSD 880-18217/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18217
880-10743-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	18217
880-10743-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18217

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Client Sample ID: BF-51**Lab Sample ID: 880-10747-1****Date Collected: 01/28/22 08:41****Matrix: Solid****Date Received: 01/31/22 14:32**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	18173	02/01/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18229	02/01/22 13:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18476	02/03/22 11:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18288	02/01/22 13:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 22:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	18217	01/31/22 19:01	SC	XEN MID
Soluble	Analysis	300.0		1			18554	02/04/22 13:42	CH	XEN MID

Client Sample ID: BF-52**Lab Sample ID: 880-10747-2****Date Collected: 01/28/22 08:42****Matrix: Solid****Date Received: 01/31/22 14:32**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	18173	02/01/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18229	02/01/22 14:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18476	02/03/22 11:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18288	02/01/22 13:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 22:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	18217	01/31/22 19:01	SC	XEN MID
Soluble	Analysis	300.0		1			18554	02/04/22 14:05	CH	XEN MID

Client Sample ID: BF-53**Lab Sample ID: 880-10747-3****Date Collected: 01/28/22 08:43****Matrix: Solid****Date Received: 01/31/22 14:32**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18173	02/01/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18229	02/01/22 14:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18476	02/03/22 11:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18288	02/01/22 13:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 23:09	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18217	01/31/22 19:01	SC	XEN MID
Soluble	Analysis	300.0		1			18554	02/04/22 14:12	CH	XEN MID

Client Sample ID: BF-54**Lab Sample ID: 880-10747-4****Date Collected: 01/28/22 08:44****Matrix: Solid****Date Received: 01/31/22 14:32**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	18173	02/01/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18229	02/01/22 14:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18599	02/04/22 14:16	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Client Sample ID: BF-54

Lab Sample ID: 880-10747-4

Date Collected: 01/28/22 08:44

Matrix: Solid

Date Received: 01/31/22 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			18476	02/03/22 11:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18288	02/01/22 13:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 23:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18217	01/31/22 19:01	SC	XEN MID
Soluble	Analysis	300.0		1			18554	02/04/22 14:20	CH	XEN MID

Client Sample ID: BF-55

Lab Sample ID: 880-10747-5

Date Collected: 01/28/22 08:45

Matrix: Solid

Date Received: 01/31/22 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	18173	02/01/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18229	02/01/22 16:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18476	02/03/22 11:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18288	02/01/22 13:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 23:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	18217	01/31/22 19:01	SC	XEN MID
Soluble	Analysis	300.0		1			18554	02/04/22 14:27	CH	XEN MID

Client Sample ID: BF-56

Lab Sample ID: 880-10747-6

Date Collected: 01/28/22 08:46

Matrix: Solid

Date Received: 01/31/22 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	18173	02/01/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18229	02/01/22 16:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18476	02/03/22 11:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18288	02/01/22 13:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/02/22 00:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	18217	01/31/22 19:01	SC	XEN MID
Soluble	Analysis	300.0		1			18554	02/04/22 14:35	CH	XEN MID

Client Sample ID: BF-57

Lab Sample ID: 880-10747-7

Date Collected: 01/28/22 08:47

Matrix: Solid

Date Received: 01/31/22 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	18173	02/01/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18229	02/01/22 16:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18476	02/03/22 11:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18288	02/01/22 13:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/02/22 01:00	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Client Sample ID: BF-57**Lab Sample ID: 880-10747-7****Date Collected: 01/28/22 08:47****Matrix: Solid****Date Received: 01/31/22 14:32**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	18217	01/31/22 19:01	SC	XEN MID
Soluble	Analysis	300.0		1			18554	02/04/22 14:42	CH	XEN MID

Client Sample ID: BF-58**Lab Sample ID: 880-10747-8****Date Collected: 01/28/22 08:48****Matrix: Solid****Date Received: 01/31/22 14:32**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	18173	02/01/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18229	02/01/22 17:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18476	02/03/22 11:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18288	02/01/22 13:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/02/22 01:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	18217	01/31/22 19:01	SC	XEN MID
Soluble	Analysis	300.0		1			18554	02/04/22 14:50	CH	XEN MID

Client Sample ID: BF-59**Lab Sample ID: 880-10747-9****Date Collected: 01/28/22 08:49****Matrix: Solid****Date Received: 01/31/22 14:32**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	18173	02/01/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18229	02/01/22 17:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18476	02/03/22 11:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18288	02/01/22 13:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/02/22 01:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18219	01/31/22 19:04	SC	XEN MID
Soluble	Analysis	300.0		1			18525	02/04/22 01:50	CH	XEN MID

Client Sample ID: BF-60**Lab Sample ID: 880-10747-10****Date Collected: 01/28/22 08:50****Matrix: Solid****Date Received: 01/31/22 14:32**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	18173	02/01/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18229	02/01/22 17:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18476	02/03/22 11:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18288	02/01/22 13:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/02/22 02:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18219	01/31/22 19:04	SC	XEN MID
Soluble	Analysis	300.0		1			18525	02/04/22 02:09	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

- 1
- 2
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- 14

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Palmio AST- Backfull

Job ID: 880-10747-1
SDG: 21-0105-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10747-1	BF-51	Solid	01/28/22 08:41	01/31/22 14:32
880-10747-2	BF-52	Solid	01/28/22 08:42	01/31/22 14:32
880-10747-3	BF-53	Solid	01/28/22 08:43	01/31/22 14:32
880-10747-4	BF-54	Solid	01/28/22 08:44	01/31/22 14:32
880-10747-5	BF-55	Solid	01/28/22 08:45	01/31/22 14:32
880-10747-6	BF-56	Solid	01/28/22 08:46	01/31/22 14:32
880-10747-7	BF-57	Solid	01/28/22 08:47	01/31/22 14:32
880-10747-8	BF-58	Solid	01/28/22 08:48	01/31/22 14:32
880-10747-9	BF-59	Solid	01/28/22 08:49	01/31/22 14:32
880-10747-10	BF-60	Solid	01/28/22 08:50	01/31/22 14:32

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-10747-1

SDG Number: 21-0105-02

Login Number: 10747

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Appendix F

Photographic Documentation



Saturated soil in pasture, Spill Area A, viewing to the west.



Chloride precipitate related to the produced water release, Spill Area A, viewing to the north.



Chloride precipitate related to the produced water release, Spill Area A, viewing to the southeast.



Chloride precipitate related to the produced water release, Spill Area A, viewing to the southeast.



Chloride precipitate related to the produced water release, Spill Area A, viewing to the north.



Chloride precipitate related to the produced water release, Spill Area A, viewing to the northwest.



Saturated soil in pasture, Spill Area D, viewing to the south.



Saturated soil in pasture, Spill Area D, viewing to the south.



Saturated soil in pasture, Spill Area D, viewing to the southeast.



Saturated soil in pasture, Spill Area D, viewing to the southeast.



Chloride precipitate related to produced water release, Spill Area D, viewing to the northwest.



Saturated soil in pasture, Spill Area D, viewing to the south.



Saturated soil in pasture, Spill Area D, viewing to the southeast.



Saturated soil on lease road, Spill Area D, viewing to the north.



Saturated soil on lease road, Spill Area D, viewing to the east.



Saturated soil on lease road, Spill Area D, viewing to the east.



Saturated soil on lease road, Spill Area D, viewing to the east.



Saturated soil on lease road, Spill Area C, viewing to the east.



Saturated soil on lease road, Spill Area C, viewing to the west.



Excavated area west of the frac pond, Spill Area E, viewing to the south.



Excavated area west of the frac pond, Spill Area E, viewing to the north.



Excavated area south of the frac pond, Spill Area E, viewing to the southeast.



Excavated area in south of the frac pond, Spill Area E, viewing to the east.



Excavated area south of the frac pond, Spill Area E, viewing to the north.



Further excavated areas south of the frac pond, Spill Area E, viewing to the west.



Excavated area south of the frac pond, Spill Area E, viewing to the west.



Further excavated area south of frac pond, Spill Area E, viewing to the southeast.



Further excavated area south of the frac pond, Spill Area E, viewing to the east.



Excavated area south of the frac pond, Spill Area E, viewing to the east.



Excavated area south of the frac pond, Spill Area E, viewing to the east.



Excavated area south of the frac pond, Spill Area E, viewing to the south.



Further excavated area south of the frac pond, Spill Area E, viewing to the east.



Further excavated area south of the frac pond, Spill Area E, viewing east.



Further excavated areas south of frac pond, Spill Area E, viewing to the southeast.



Further excavated area south of frac pond, Spill Area E, viewing to the southwest.



Excavated area south of the frac pond, Spill Area E, viewing to the west.



Excavated area south of the frac pond, Spill Area E, viewing to the east.



Excavated area south of the frac pond, Spill Area E, viewing to the east.



Excavated area south of the frac pond, Spill Area E, viewing to the west.



Excavated area in south of frac pond, Spill Area E, viewing to the northwest.



Excavated area on pad, Spill Area D, viewing to the east.



Excavated area on pad, Spill Area D, viewing to the north.



Excavated area on pad, Spill Area D, viewing to the southeast.



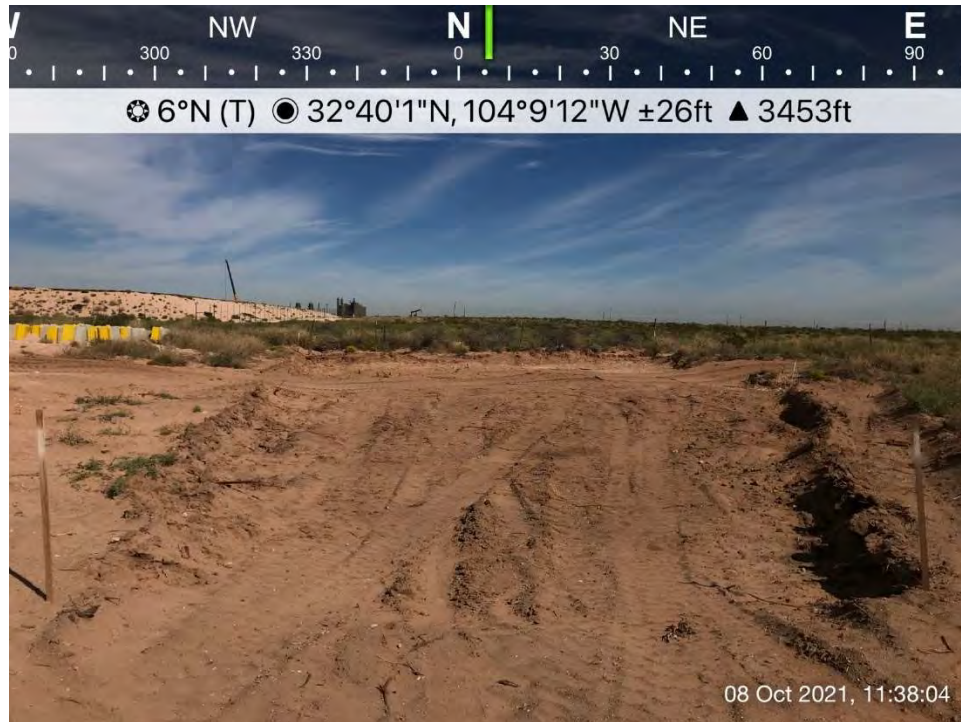
Excavated area on pad, Spill Area D, viewing to the south.



Excavated area on pad, Spill Area D, viewing to the northwest.



Excavated area on the pad and in the pasture, Spill Area D, viewing to the southeast.



Excavated area in pasture east of the pad, Spill Area D, viewing to the north.



Excavated are in pasture east of the pad, Spill Area D, viewing to the south.



Excavated area in pasture east of the pad, Spill Area D, viewing to the southeast.



Excavated area east of the pad, Spill Area D, viewing to the southeast.



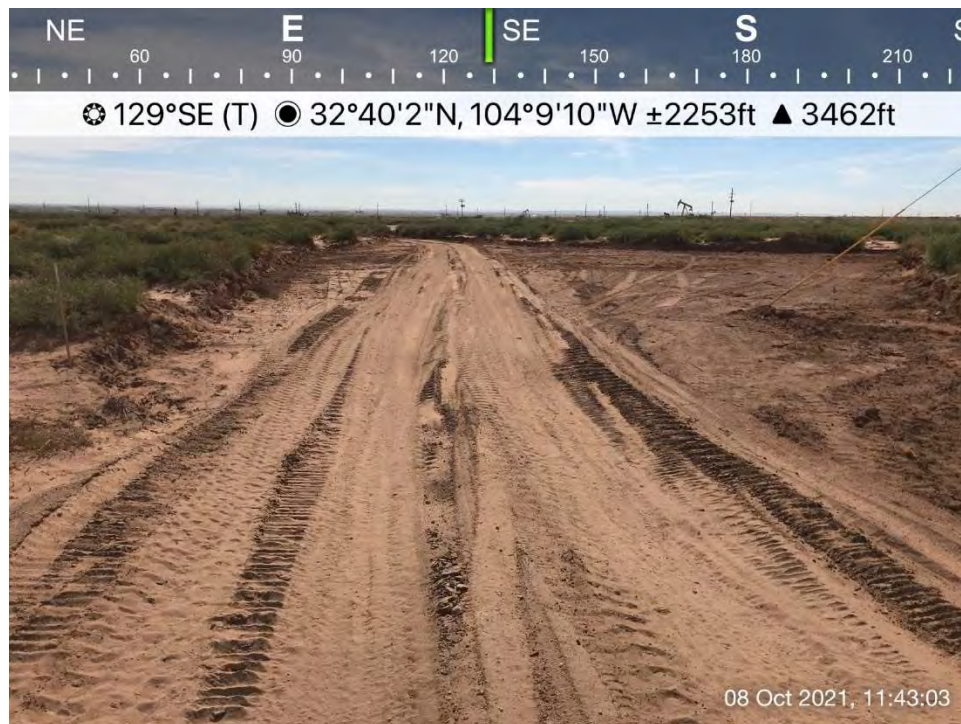
Excavated Area east of the pad, Spill Area D, viewing to the east.



Excavated area in pasture east of the pad, Spill Area D, viewing to the southeast.



Excavated area in pasture east of the pad, Spill Area D, viewing to the east.



Excavated area in pasture east of the pad, Spill Area D, viewing to the southeast.



Excavated area in pasture east of the pad, Spill Area D, viewing to the southeast.



Excavated area in pasture east of the pad, Spill Area D, viewing to the northwest.



Excavated area in pasture east of the pad, Spill Area D, viewing to the southeast.



Excavated area in pasture east of the pad, Spill Area D, viewing to the southeast.



Excavated area in pasture east of the pad, Spill Area D, viewing to the northwest.



Excavated area in pasture east of the pad, Spill Area D, viewing to the northwest.



Further excavated area in pasture east of the pad, Spill Area D, viewing to the south.



Excavated area in pasture, Spill Area A, viewing to the north.



Excavated area in pasture, Spill Area A, viewing to the northeast.



Excavated area in pasture, Spill Area A, viewing to the south.



Excavated area in pasture, Spill Area A, viewing to the southeast.



Excavated area in pasture, Spill Area B, viewing to the east.



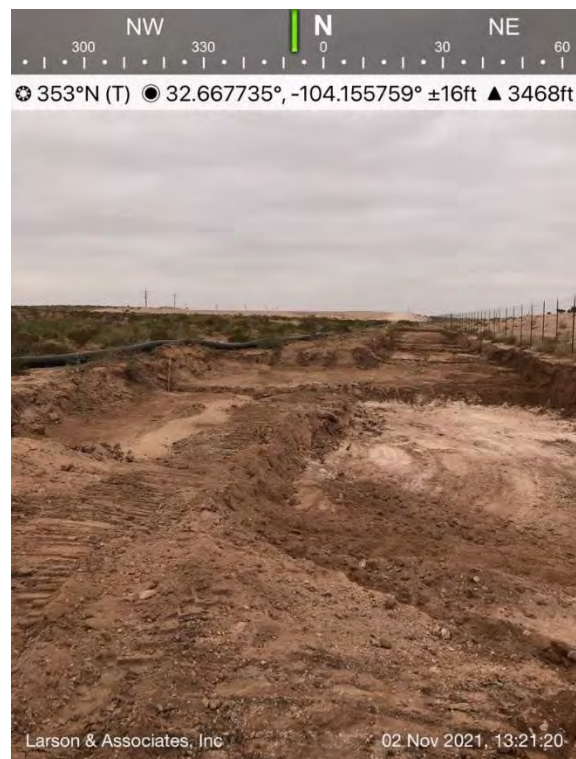
Excavated area in pasture, Spill Area B, viewing to the west.



Further excavation on pad south of frac pond, Spill Area D, viewing southeast.



Further excavation on pad south of frac pond, Spill Area D, viewing to the west.



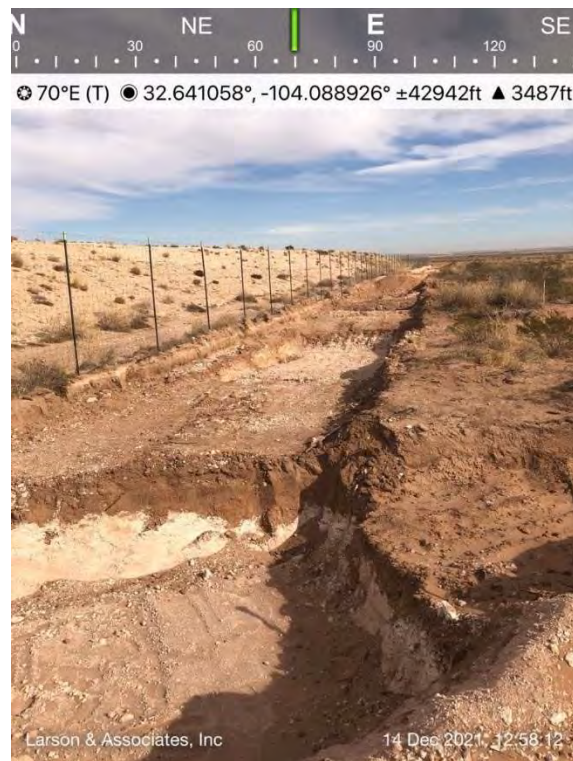
Further excavation in pasture south of frac pond, Spill Area E, viewing to the north.



Further excavation on lease road, Spill Area C, viewing to the northeast.



Further excavation south of the frac pond, Spill Area E, viewing to the north.



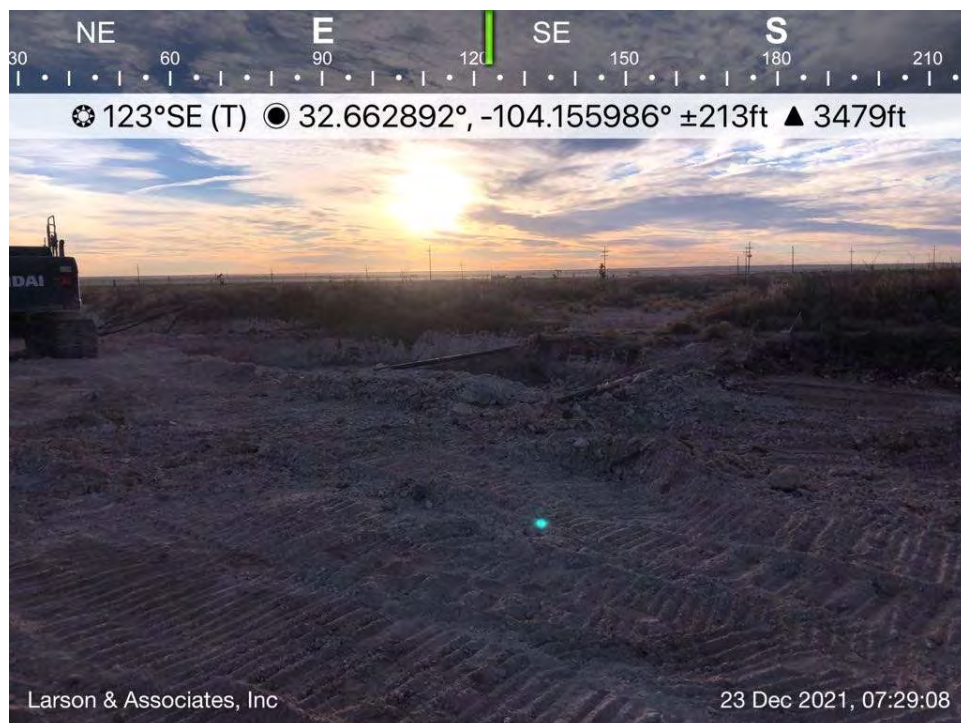
Further excavation south of the frac pond, Spill Area E, viewing to the east.



Excavated area south of the frac pond, Spill Area E, viewing to the southeast.



Further excavation on lease road, Spill Area C, viewing to the south.



Further excavation on lease road, Spill Area C, viewing to the southeast.



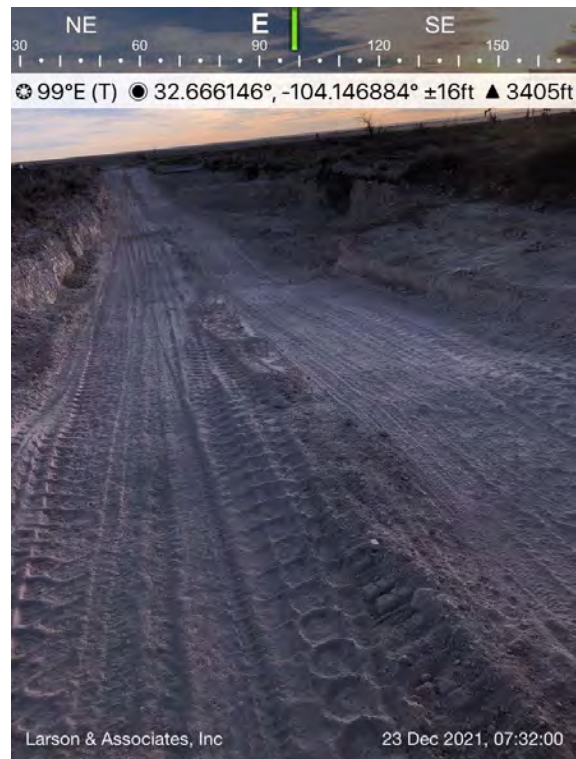
Further excavation on lease road, Spill Area C, viewing to the south.



Further exaction on lease road, Spill Area C, viewing to the east.



Further excavation of sidewall on lease road, Spill Area C, viewing to the northeast.



Further excavation of sidewalls on lease road, Spill Area C, viewing to the east.



Further excavation in pasture, Spill Area A, viewing to the west.



Further excavation in pasture, Spill Area A, viewing to the northwest.



Further excavation in pasture, Spill Area A, viewing to the northwest.



Further excavation in pasture, Spill Area A, viewing to the northwest.



Further excavation in pasture, Spill Area A, viewing to the north.



Further excavation in pasture, Spill Area A, viewing to the east.



Further excavation in pasture, Spill Area A, viewing to the northeast.



Further excavation in pasture, Spill Area A, viewing to the north.



Further excavation in pasture, Spill Area A, viewing to the east.



Further excavation in pasture, Spill Area A, viewing to the southwest.



Further exaction in pasture, Spill Area A, viewing to the south.



Further excavation in pasture, Spill Area A, viewing to the northwest.



Further excavation in pasture, Spill Area B, viewing to the south.



Further excavation in pasture, Spill Area B, viewing to the east.



Further excavation of sidewall in pasture, Spill Area B, viewing to the north.



Further excavation of sidewall in pasture, Spill Area B, viewing to the north.



Further excavation of sidewall in pasture, Spill Area B, viewing to the northeast.



Further excavation of sidewall in pasture, Spill Area B, viewing to the southwest.



Further excavation of sidewall in pasture, Spill Area B, viewing to the southeast.



Further excavation on lease road, Spill Area C, viewing to the south.



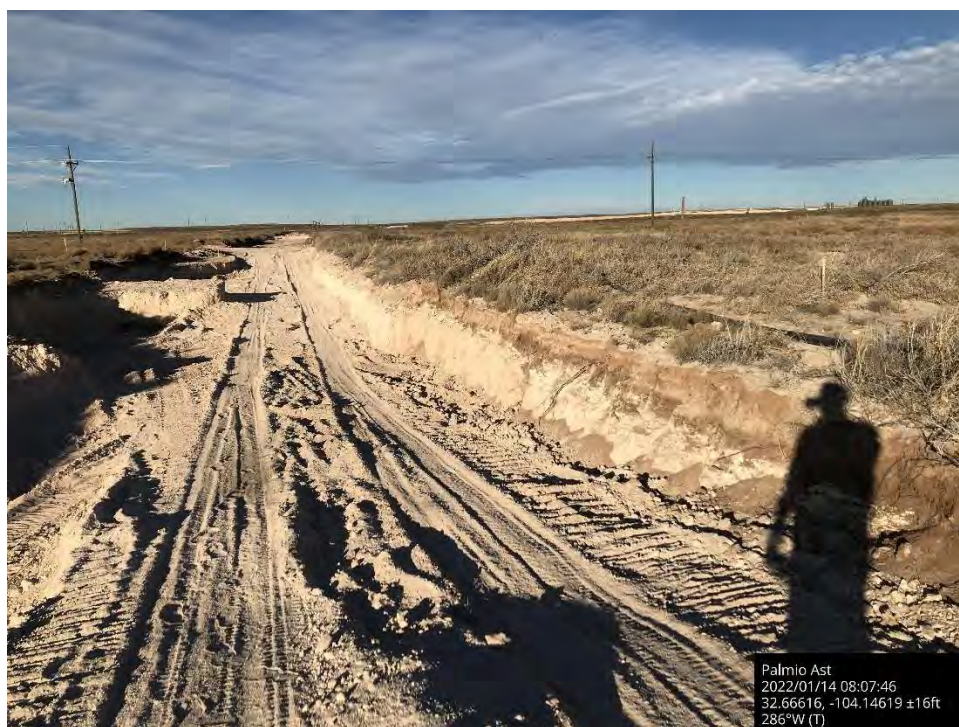
Further excavation on lease road, Spill Area C, viewing to the south.



Further excavation on lease road, Spill Area C, viewing to the south.



Further excavation of sidewall on lease road, Spill Area C, viewing to the northeast.



Further excavation of sidewall on lease road, Spill Area C, viewing to the west.



Further exaction of sidewall on lease road, Spill Area C, viewing to the south.



Further excavation of sidewall on lease road, Spill Area C, viewing to the southwest.



Backfilling pasture with caliche, Spill Area A, viewing to the north.



Backing pasture with caliche, Spill Area A, viewing to the south.



Further excavation on lease road, Spill Area C, viewing to the west.



Further excavation on lease road, Spill Area C, viewing to the south.



Further excavation on lease road, Spill Area C, viewing to the south.



Further excavation on lease road, Spill Area C, viewing to the east.



Further excavation on lease road, Spill Area C, viewing to the west.



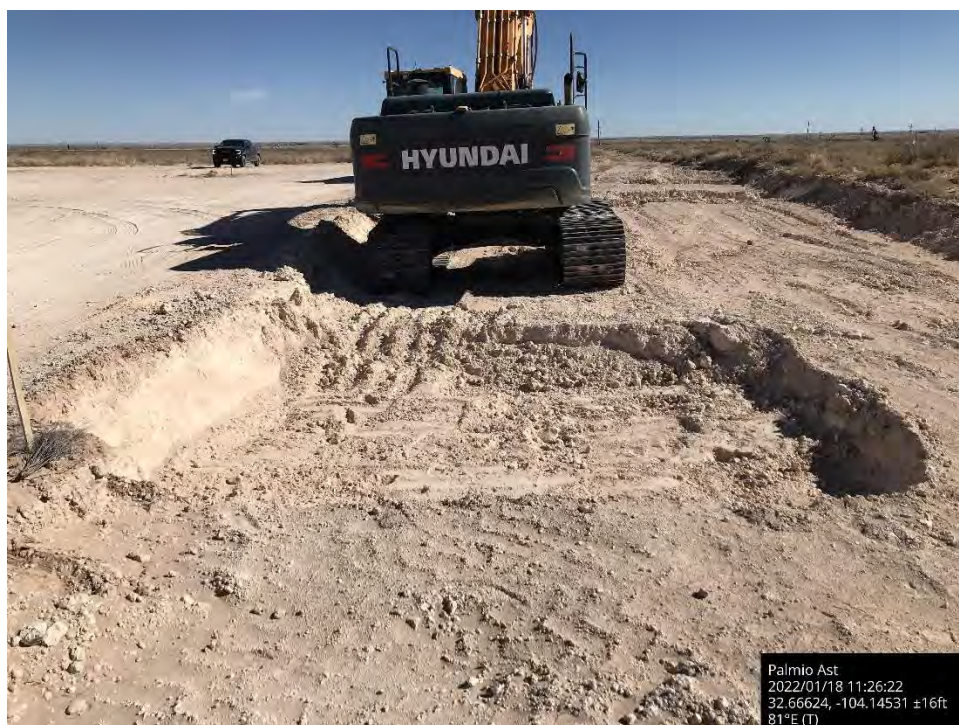
Further excavation on lease road, Spill Area C, viewing to the west.



Further excavation on lease road, Spill Area C, viewing to the east.



Further excavation on lease road, Spill Area C, viewing to the north.



Further excavation on lease road, Spill Area C, viewing to the east.



Further excavation on lease road, Spill Area C, viewing to the south.



Further excavation on lease road, Spill Area C, viewing to the southwest.



Further excavation on lease road, Spill Area C, viewing to the north.



Further Excavation on lease road, Spill Area C, viewing to the northeast.



Further excavation on lease road, Spill Area C, viewing to the east.



Further excavation on lease road, Spill Area C, viewing to the southeast.



Further excavation on lease road, Spill Area C, viewing to the west.



Further excavation on lease road, Spill Area C, viewing to the west.



Further excavation of sidewall on lease road, Spill Area C, viewing to the east.



Further excavation of sidewall on lease road, Spill Area C, viewing to the northeast.



Further Excavation of sidewall on lease road, Spill Area C, viewing to the northwest.



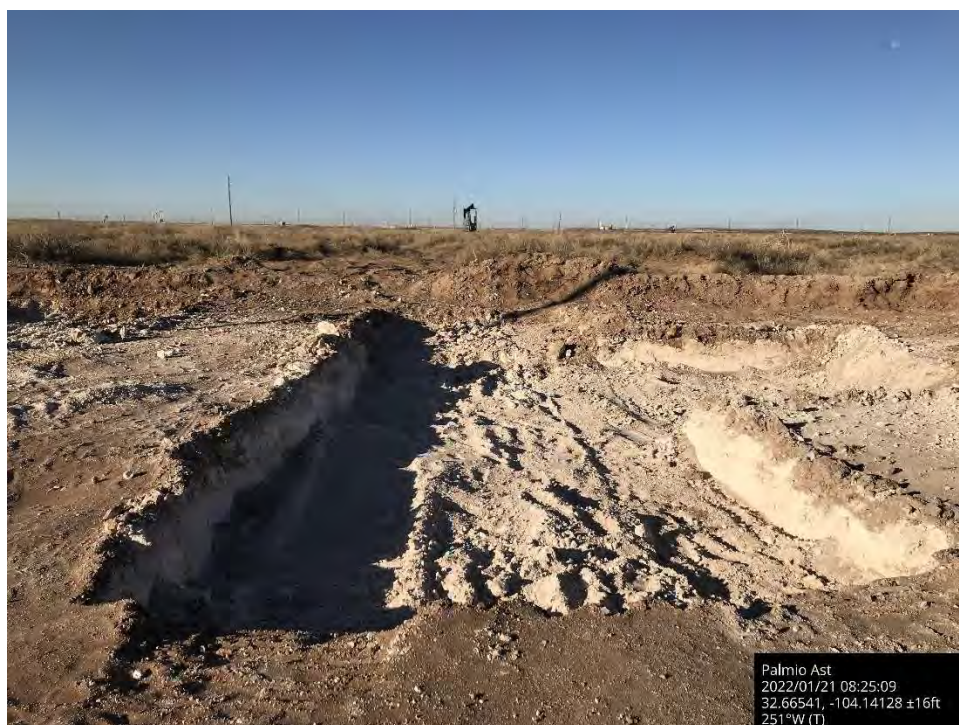
Further excavation of sidewall on lease road, Spill Area C, viewing to the south.



Further excavation of sidewall on lease road, Spill Area C, viewing to the southwest.



Further excavation on lease road, Spill Area C, viewing to the west.



Further excavation in pasture, Spill Area A, viewing to the west.



Further excavation in pasture, Spill Area A, viewing to the south.



Further excavation in pasture, Spill Area A, viewing to the east.



Further excavation of sidewall on lease road, Spill Area D, viewing to the southeast.



Further excavation of sidewall on lease road, Spill Area D, viewing to the south.



Further excavation on lease road, Spill Area D, viewing to the southwest.



Further excavation on pad, Spill Area D, viewing to the southeast.



Further excavation on pad, Spill Area D, viewing to the south.



Further excavation on pad, Spill Area D, viewing to the north.



Further Excavation on pad, Spill Area D, viewing to the northeast.



Further excavation on pad, Spill Area D, viewing to the north.



Further excavation on pad, Spill Area D, viewing to the southeast.



Further excavation on pad, Spill Area D, viewing to the south.



Further excavation on pad, Spill Area D, viewing to the south.



Further excavation in pasture, Spill Area D, viewing to the east.



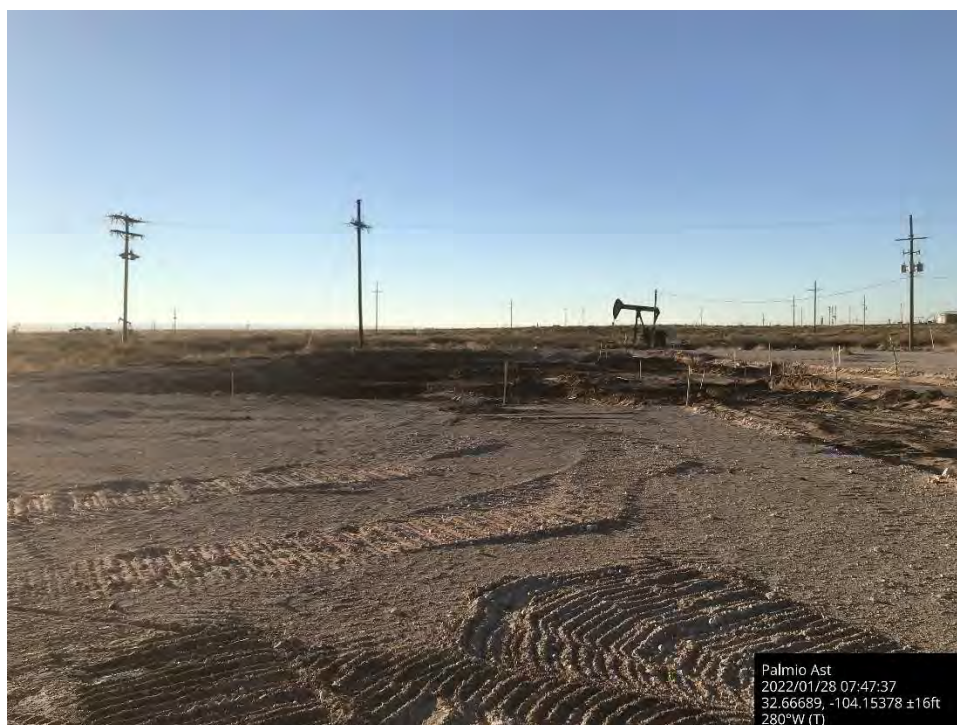
Further excavation in pasture, Spill Area D, viewing to the east.



Further excavation in pasture, Spill Area D, viewing to the southeast.



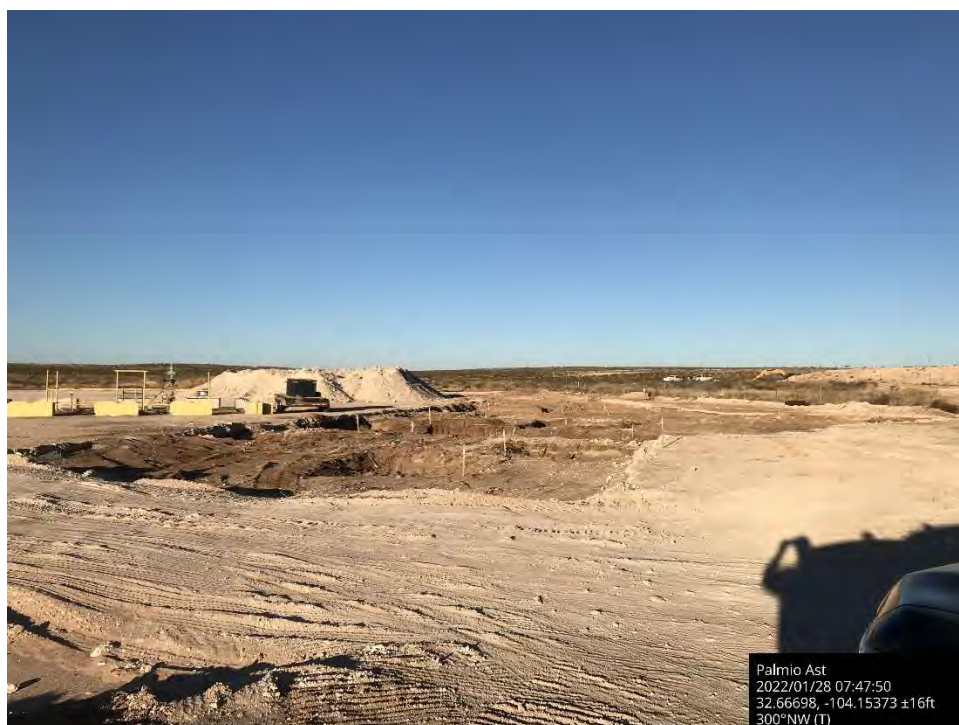
Further excavation in pasture, Spill Area D, viewing to the east.



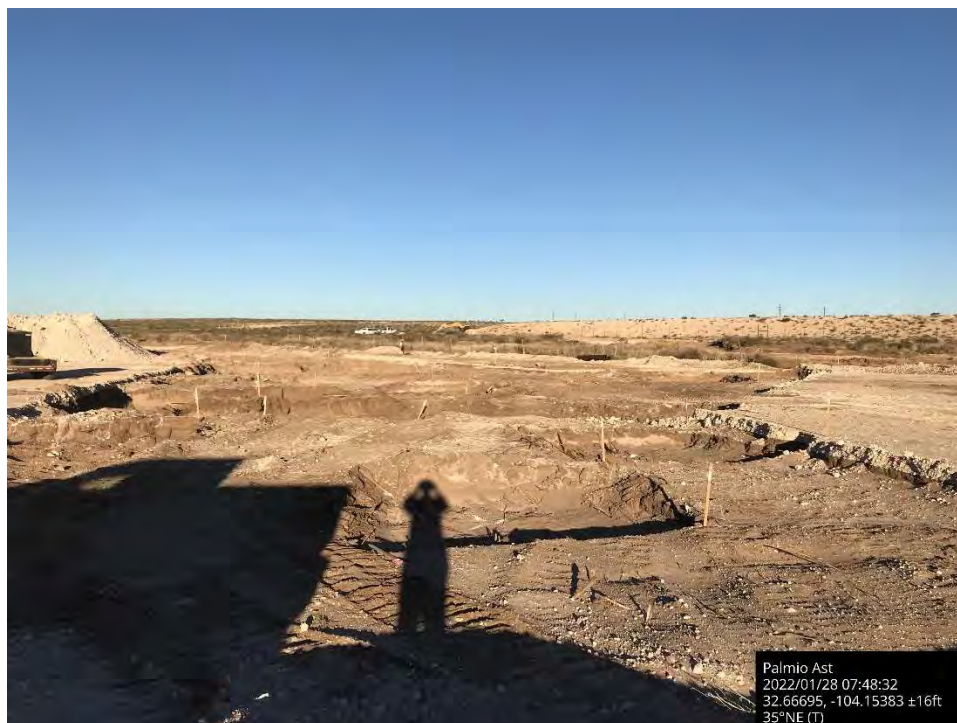
Further excavation on pad, Spill Area D, viewing to the west.



Further excavation on pad, Spill Area D, viewing to the west.



Further excavation on pad, Spill Area D, viewing to the northwest.



Further excavation on pad, Spill Area D, viewing to the northeast.



Further excavation on pad, Spill Area D, viewing to the northeast.



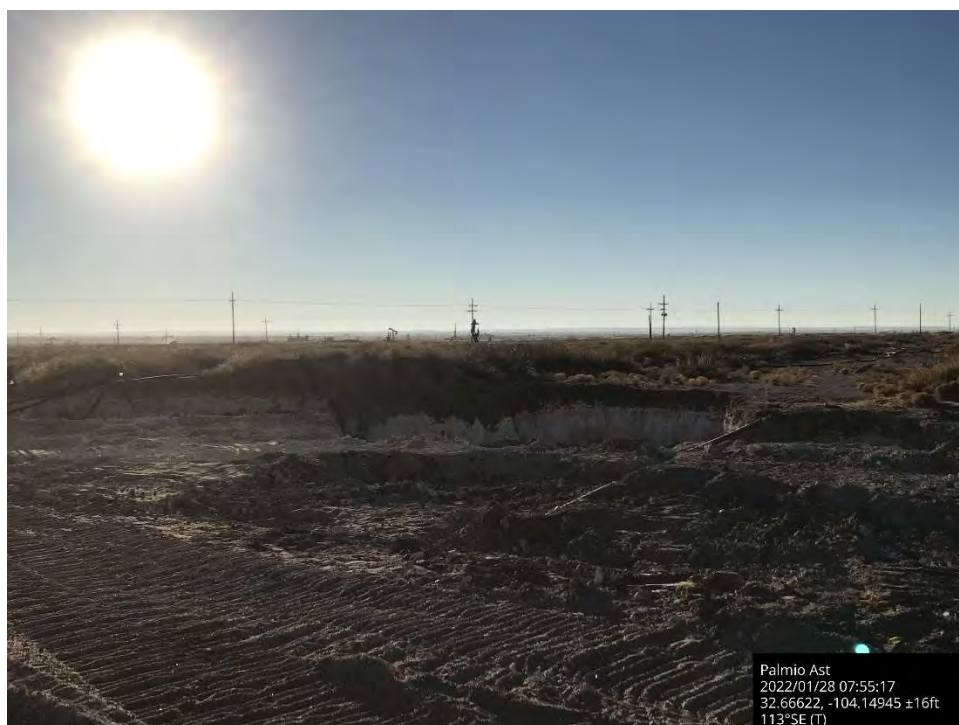
Further excavation on pad, Spill Area D, viewing to the southeast.



Further excavation on lease road, Spill Area D, viewing to the east.



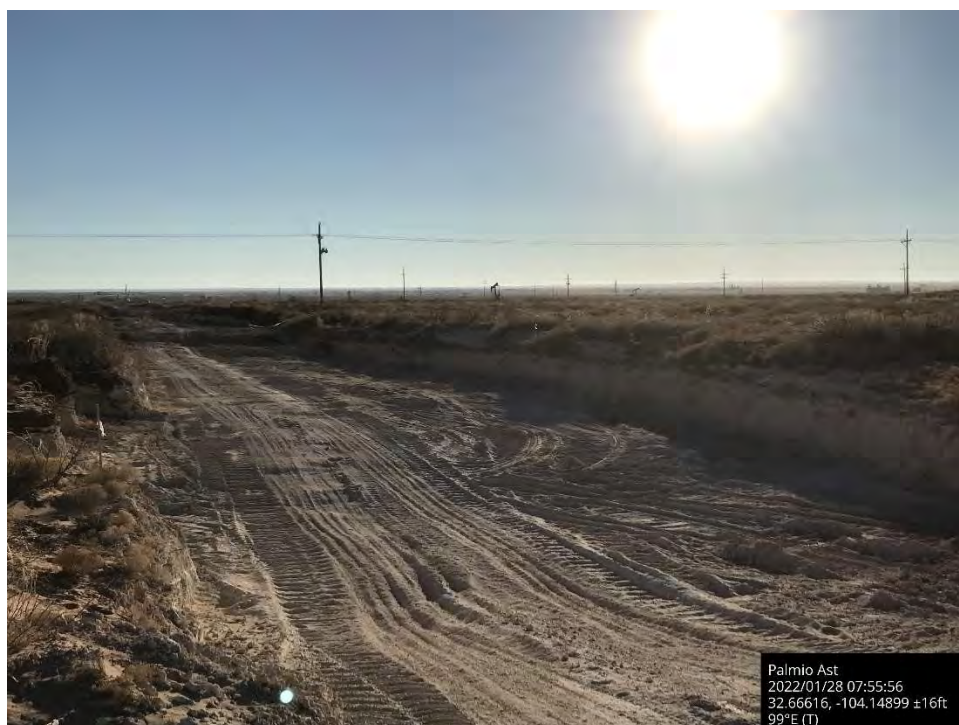
Further excavation on lease road, Spill Area D, viewing to the north.



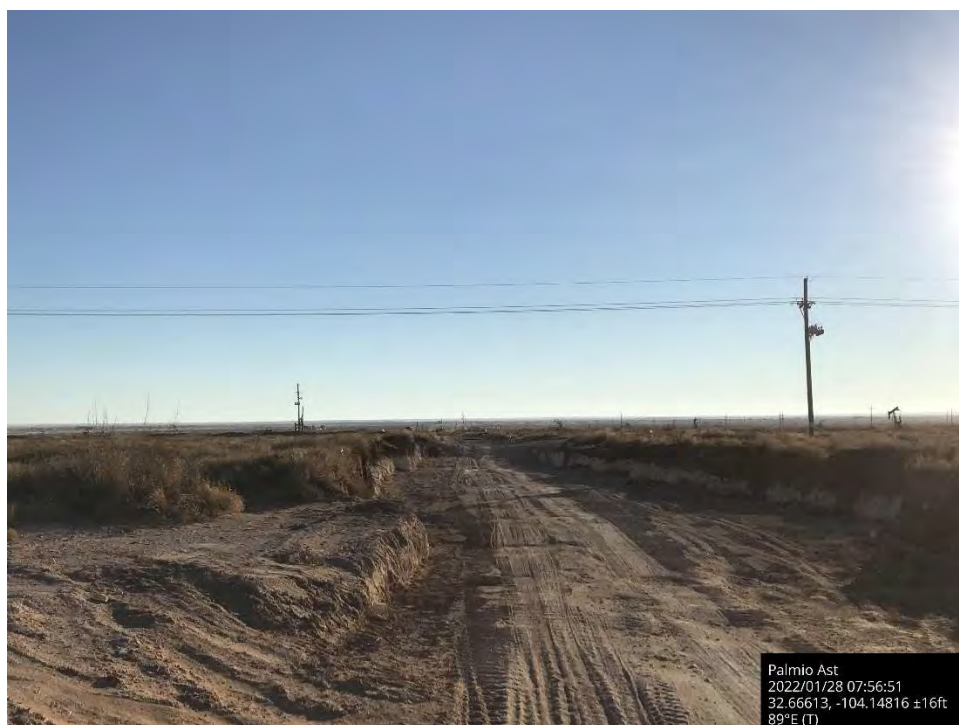
Further excavation on lease road, Spill Area C, viewing to the southeast.



Further excavation on lease road, Spill Area C, viewing to the east.



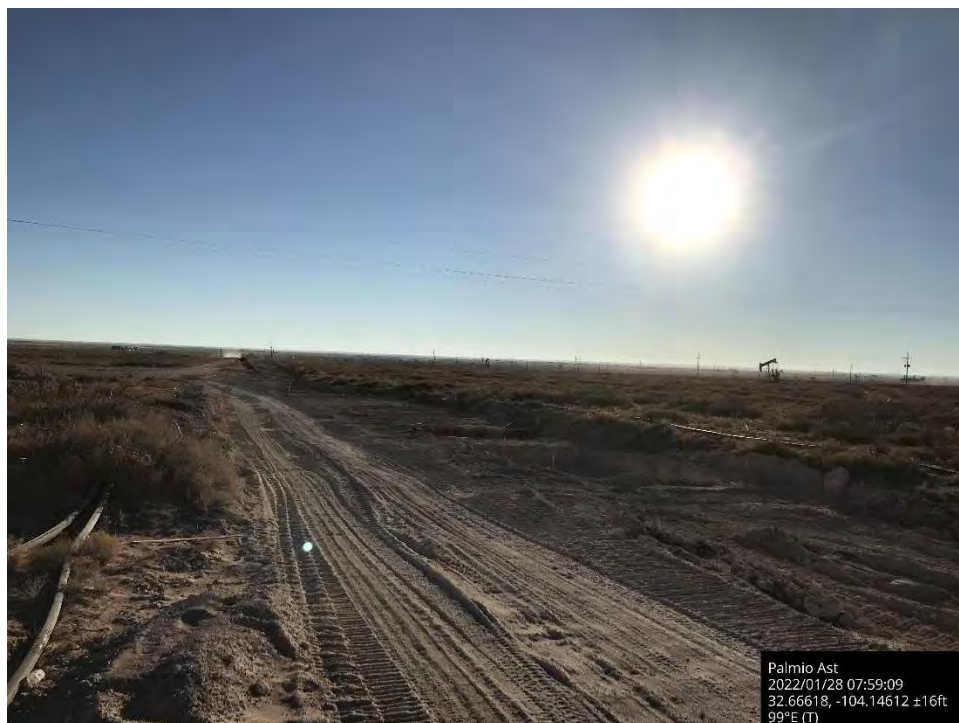
Further excavation on lease road, Spill Area C, viewing to the east.



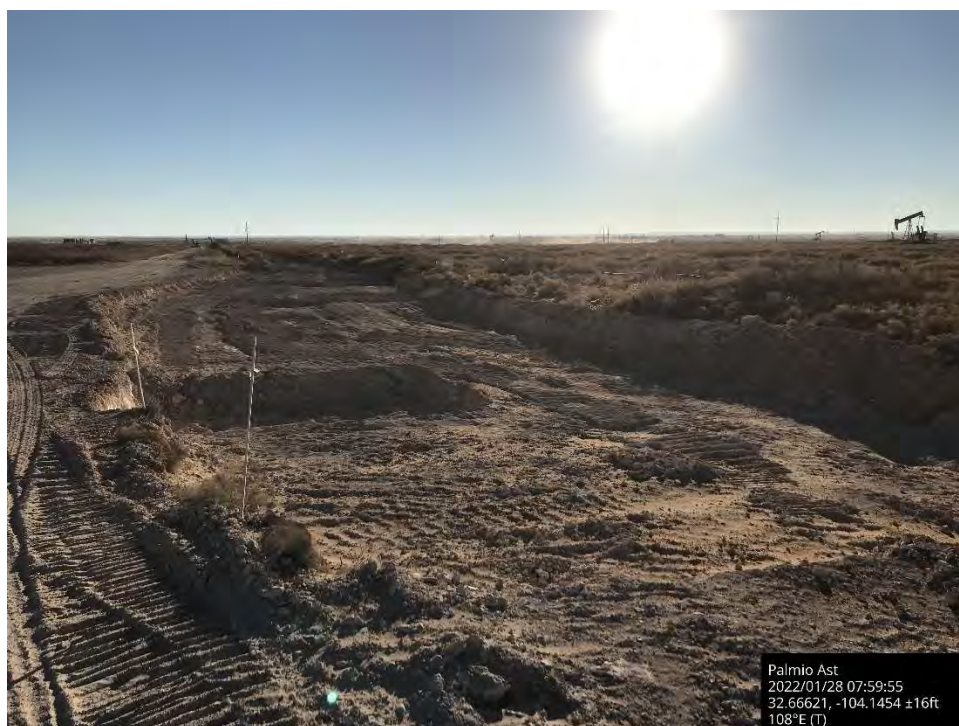
Further excavation on lease road, Spill Area C, viewing to the east.



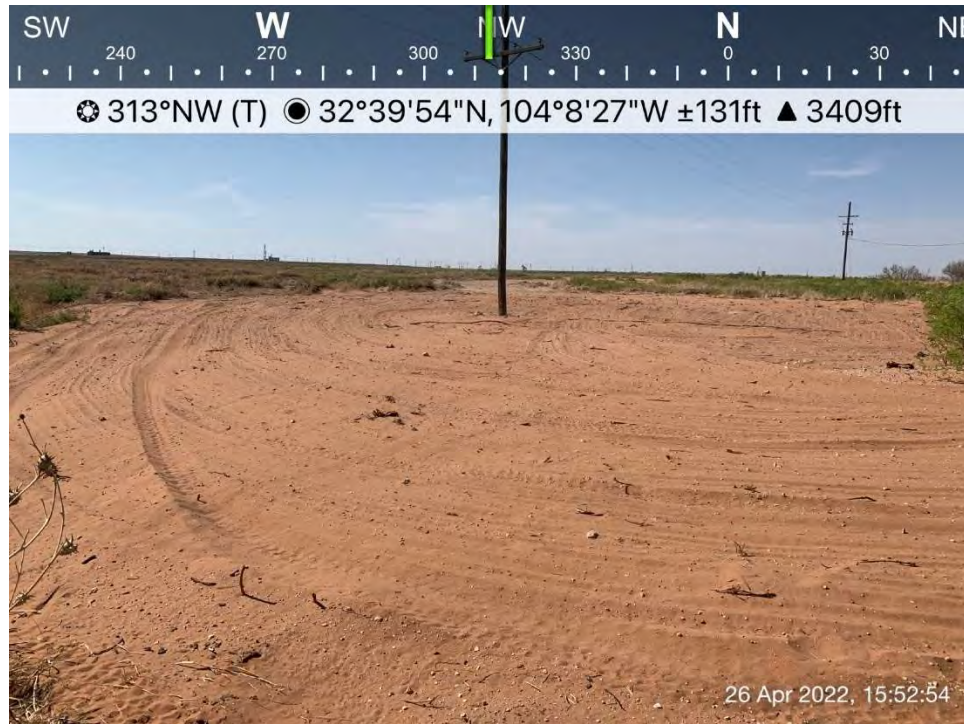
Further excavation on lease road, Spill Area C, viewing to the east.



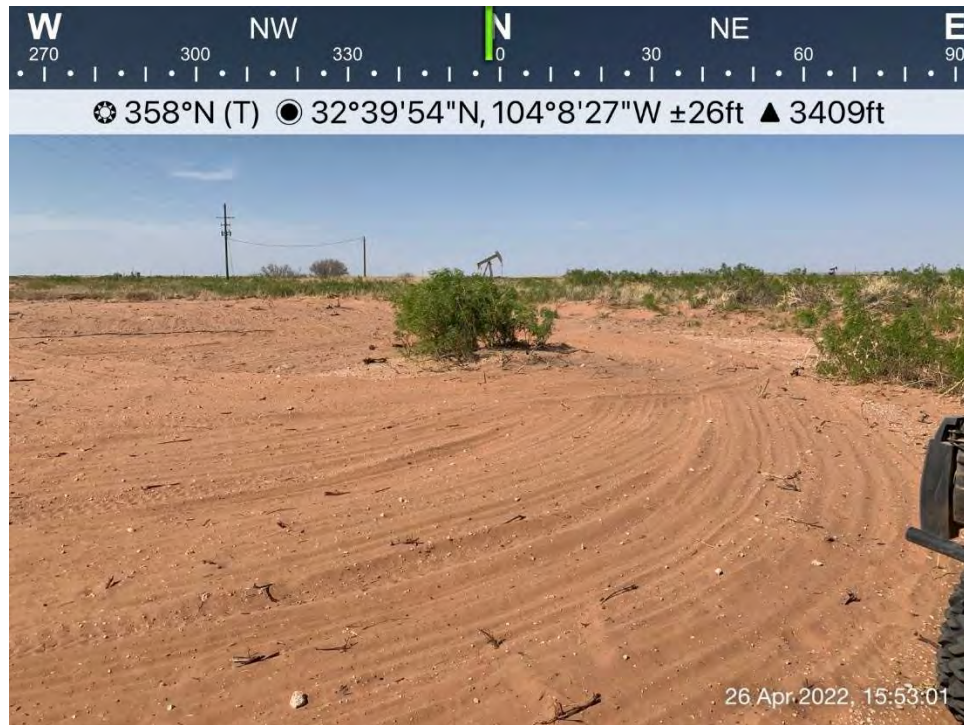
Further excavation on lease road, Spill Area C, viewing to the east.



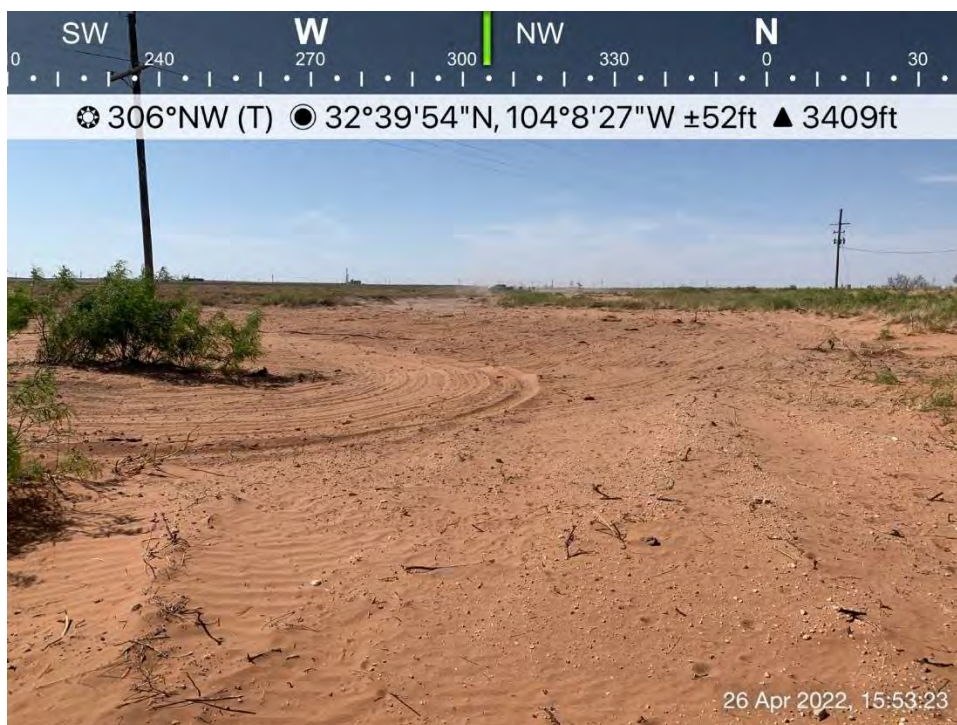
Further excavation on lease road, Spill Area C, viewing to the east.



Backfilled and seeded excavation in pasture area, Spill Area A, viewing to the northwest.



Backfilled and seed excavation in pasture area, Spill Area A, viewing to the north.



Backfilled and seed excavation in pasture area, Spill Area A, viewing to the northwest.



Backfilled and seed excavation in pasture, Spill Area A, viewing to the southeast.



Backfilled and seeded excavation in pasture, Spill Area A, viewing to the northwest.



Backfilled and seeded excavation in pasture, Spill Area A, viewing to the southeast.



Backfilled and seeded excavation in pasture, Spill Area A, viewing to the southeast.



Backfilled and seeded excavation in pasture, Spill Area D, viewing to the north.



Backfilled and seeded excavation in pasture, Spill Area D, viewing to the northeast.



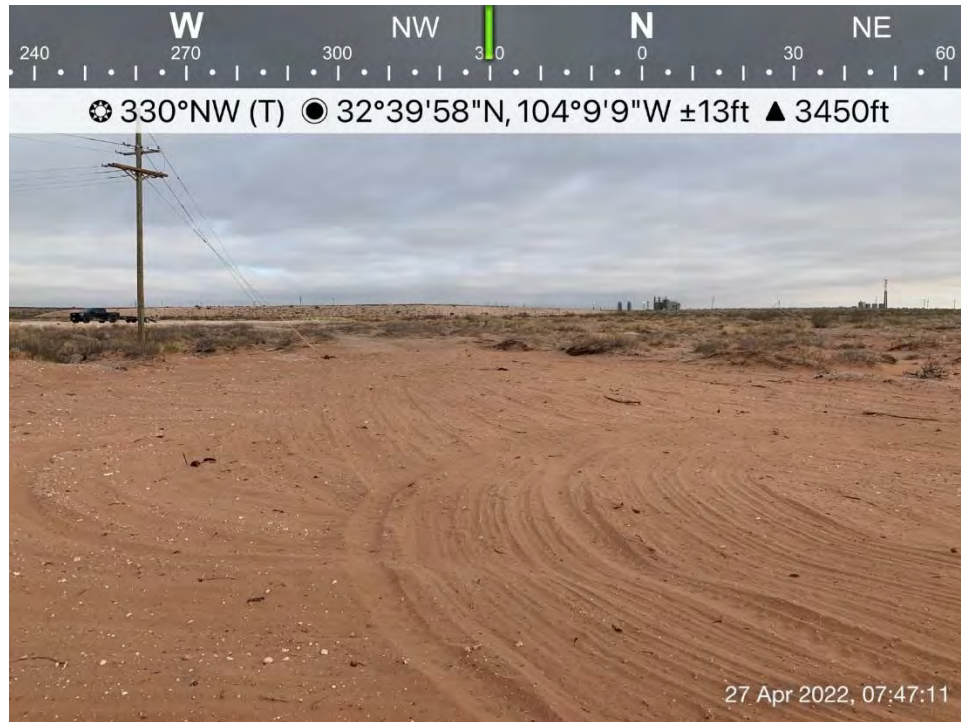
Backfilled and seeded excavation in pasture, Spill Area D, viewing to the southeast.



Backfilled and seeded excavation in pasture, Spill Area D, viewing to the north.



Backfilled and seeded excavation in pasture, Spill Area D, viewing to the northeast.



Backfilled and seeded excavation in pasture, Spill Area D, viewing to the northwest.



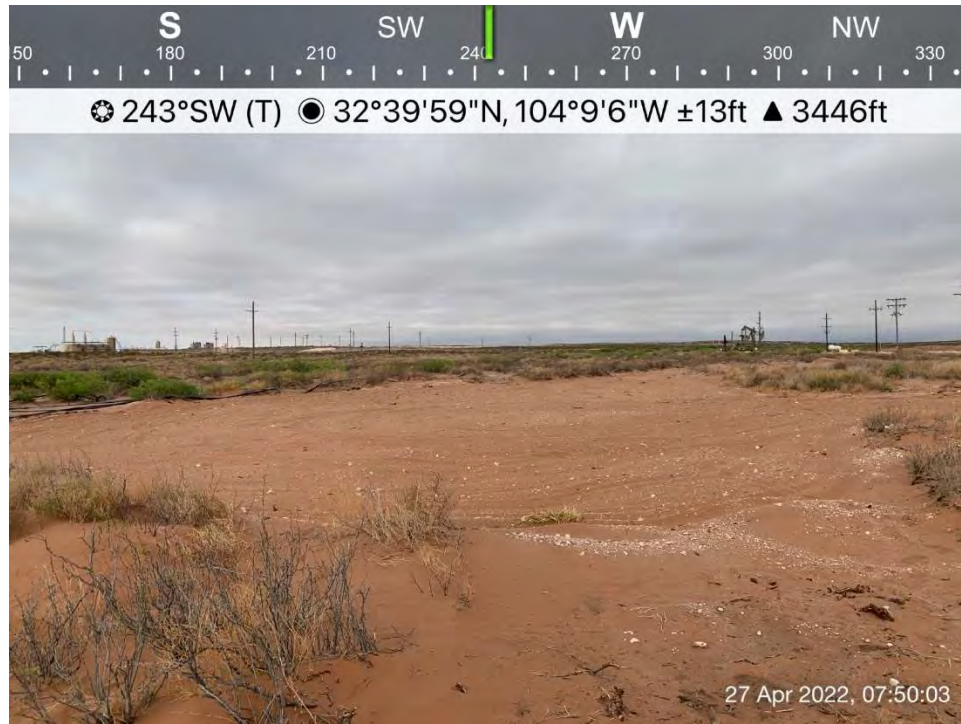
Backfilled and seeded excavation in pasture, Spill Area D, viewing to the east.



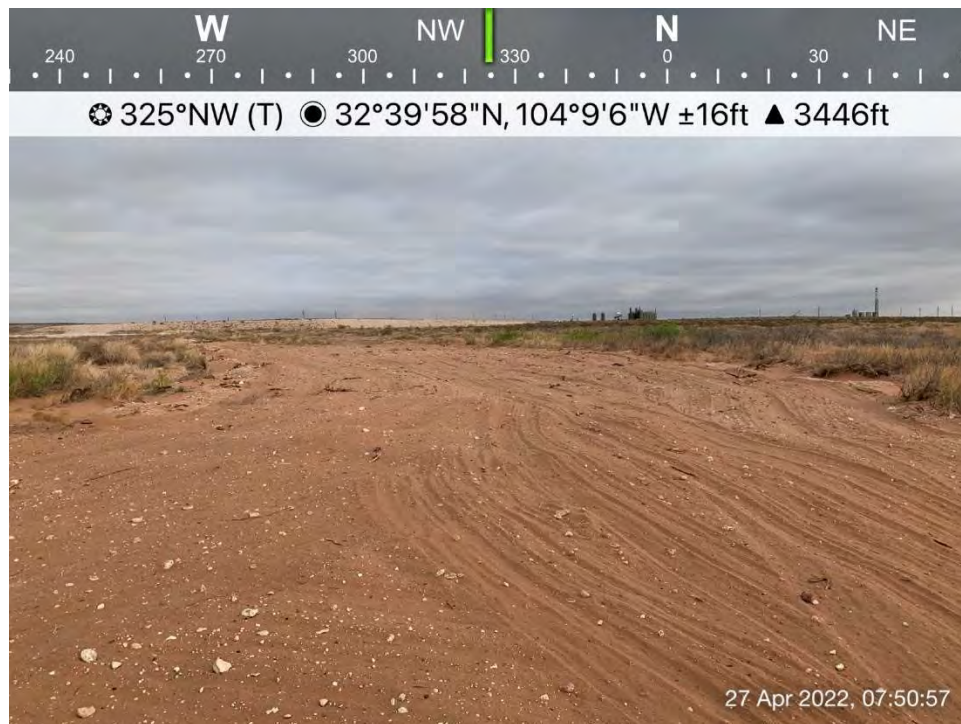
Backfilled and seeded excavation in pasture, Spill Area D, viewing to the east.



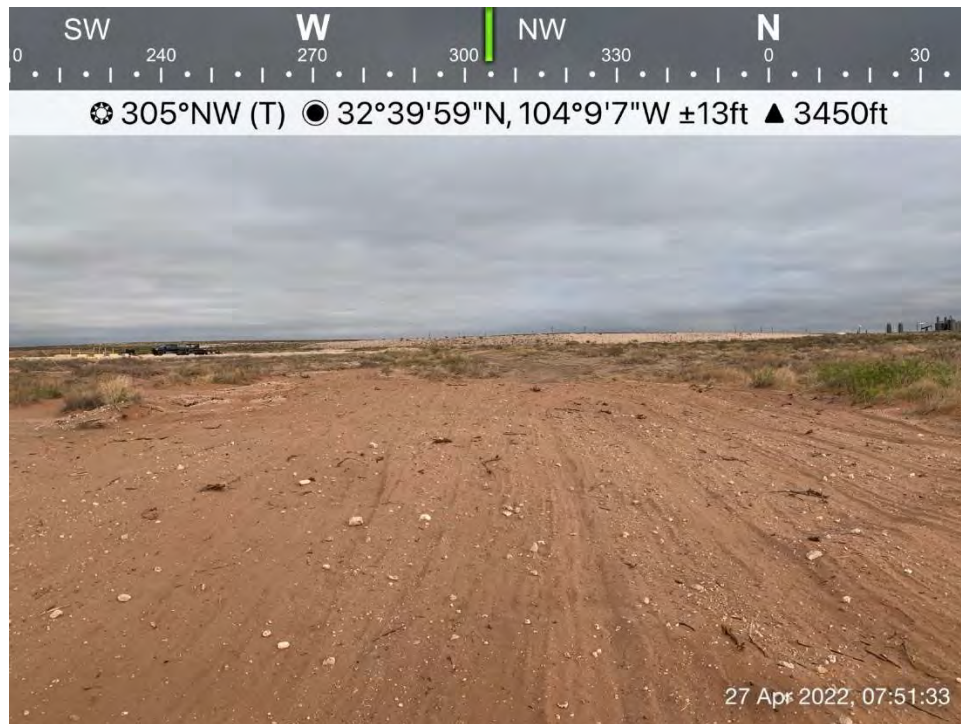
Backfilled and seeded excavation in pasture, Spill Area D, viewing to the southeast.



Backfilled and seeded excavation in pasture, Spill Area D, viewing to the southwest.



Backfilled and seeded excavation in pasture, Spill Area D, viewing to the northwest.



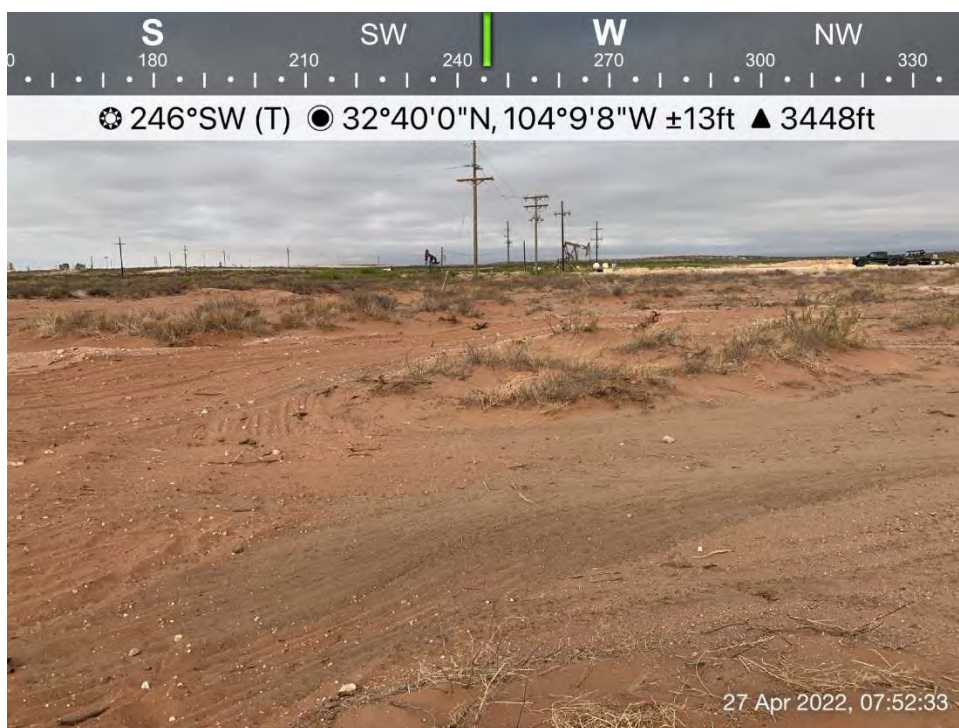
Backfilled and seeded excavation in pasture, Spill Area D, viewing to the northwest.



Backfilled and seeded excavation in pasture, Spill Area D, viewing to the southeast.



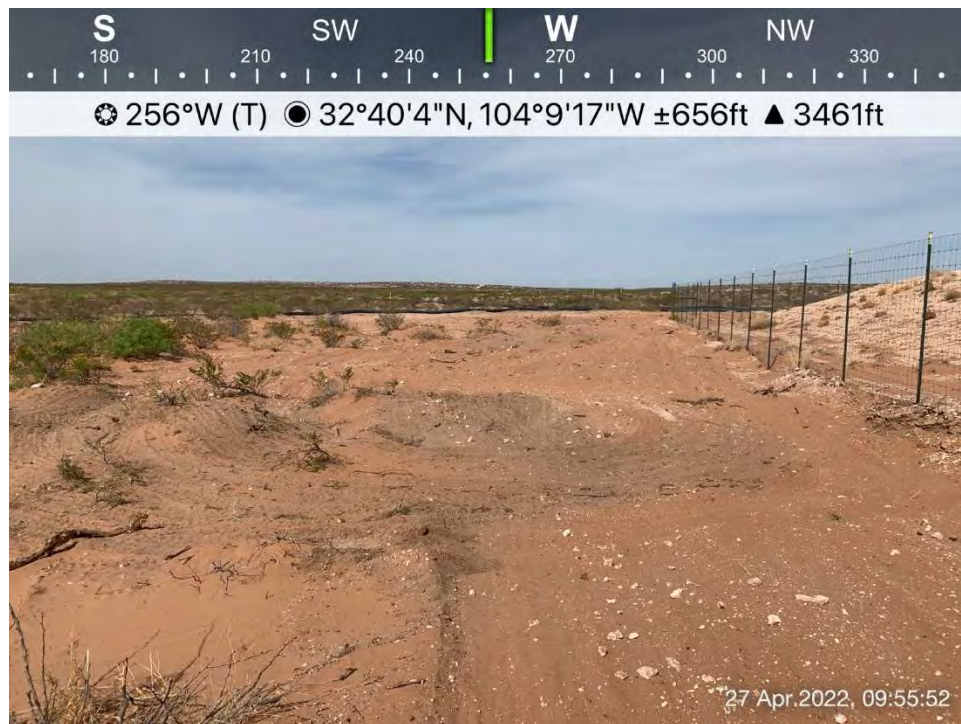
Backfilled and seeded excavation in pasture, Spill Area D, viewing to the southeast.



Backfilled and seeded excavation in pasture, Spill Area D, viewing to the northwest.



Backfilled and seeded excavation in pasture, Spill Area E, viewing to the west.



Backfilled and seeded excavation in pasture, Spill Area E, viewing to the west.



Backfilled and seeded excavation in pasture, Spill Area E, viewing to the south.





Backfilled and seeded excavation in pasture, Spill Area E, viewing to the southwest.



Backfilled and seeded excavation in pasture, Spill Area E, viewing to the southeast.



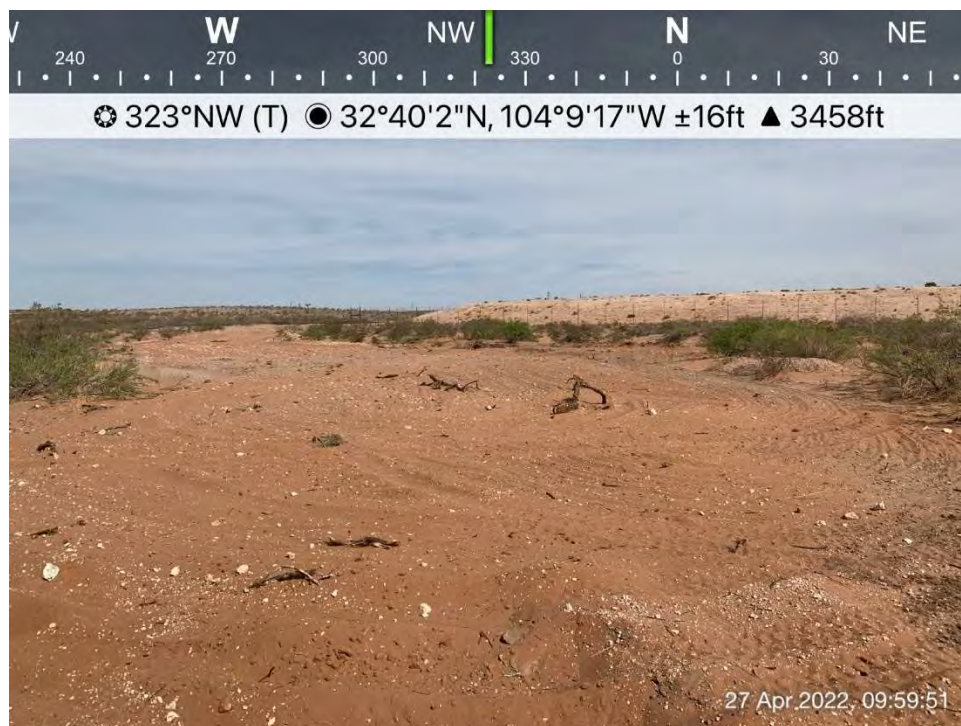
Backfilled and seeded excavation in pasture, Spill Area E, viewing to the east.



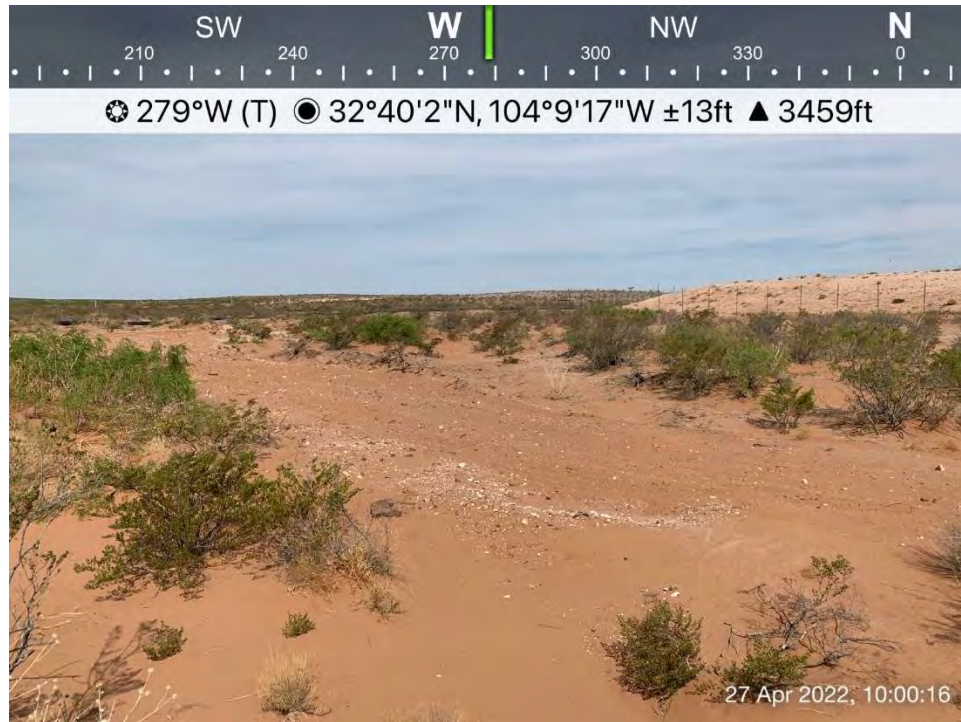
Backfilled and seeded excavation in pasture, Spill Area E, viewing to the southeast.



Backfilled and seeded excavation in pasture, Spill Area E, viewing to the east.



Backfilled and seeded excavation in pasture, Spill Area E, viewing to the northwest.



Backfilled and seeded excavation in pasture, Spill Area E, viewing to the west.



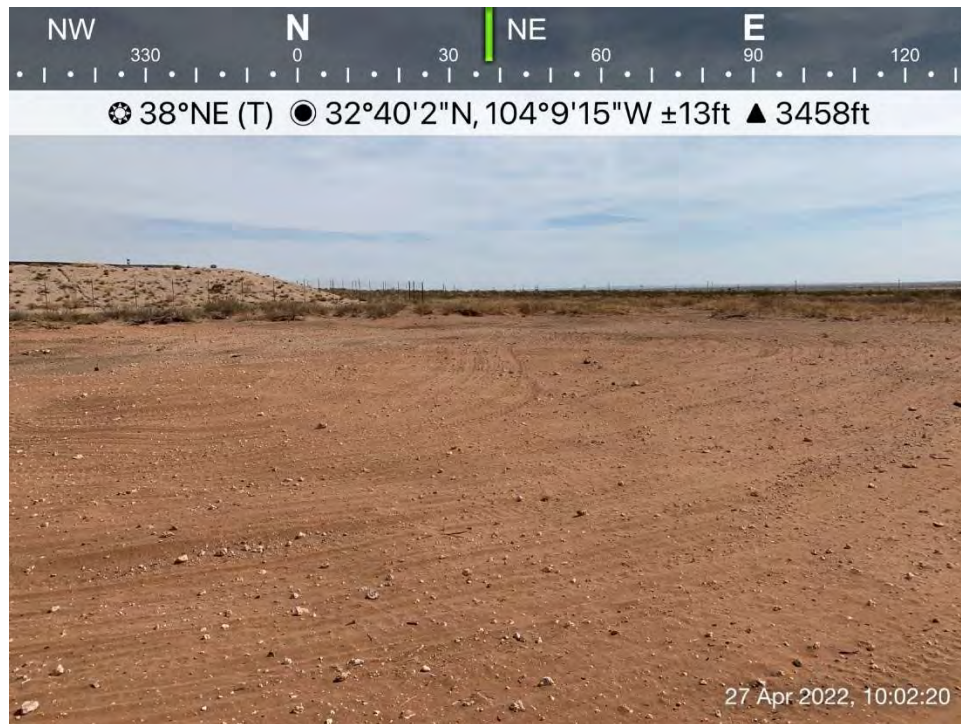
Backfilled and seeded excavation in pasture, Spill Area E, viewing to the southeast.



Backfilled and seeded excavation in pasture, Spill Area E, viewing to the east.



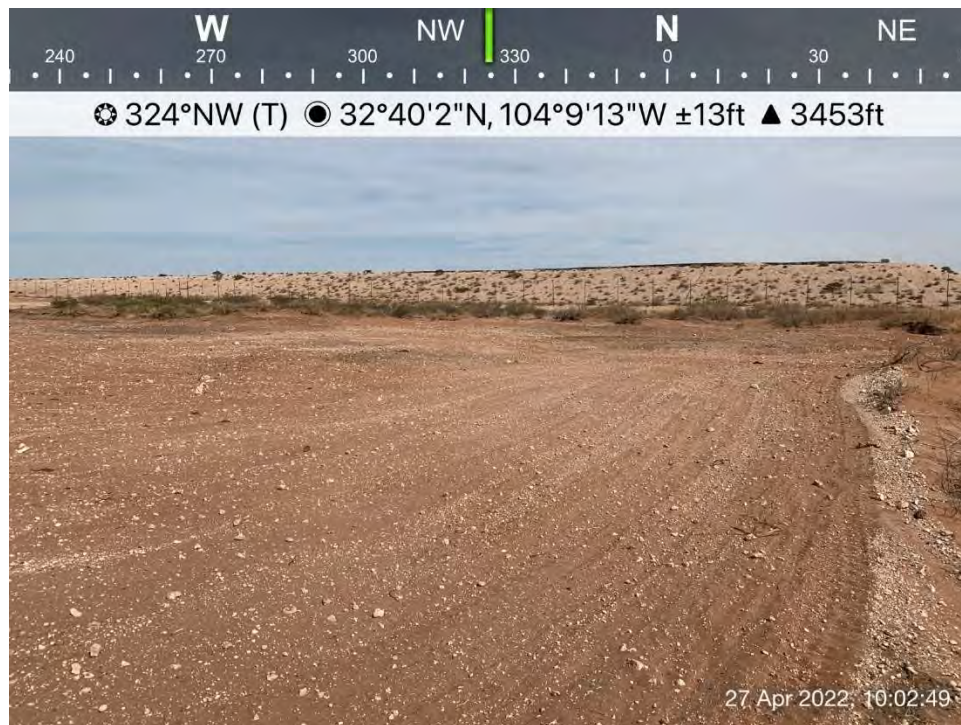
Backfilled and seeded excavation in pasture, Spill Area E, viewing to the east.



Backfilled and seeded excavation in pasture, Spill Area E, viewing to the northeast.



Backfilled and seeded excavation in pasture, Spill Area E, viewing to the west.



Backfilled and seeded excavation in pasture, Spill Area E, viewing to the northwest.



Backfilled and seeded excavation in pasture, Spill Area E, viewing to the west.



Backfilled excavation on production pad, Spill Area D, viewing to the northeast.



Backfilled excavation on production pad, Spill Area D, viewing to the south.



Backfilled excavation on production pad, Spill Area D, viewing to the south.



Backfilled excavation on production pad, Spill Area D, viewing to the south.



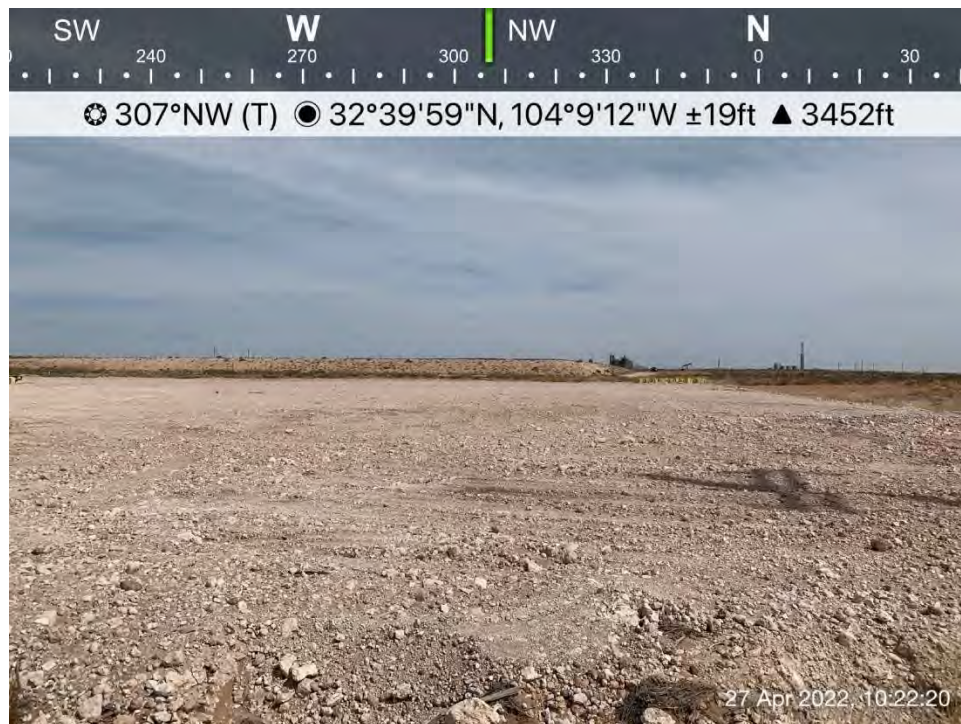
Backfilled excavation on production pad, Spill Area D, viewing to the south.



Backfilled excavation on production pad, Spill Area D, viewing to the southwest.



Backfilled excavation on production pad, Spill Area D, viewing to the southwest.



Backfilled excavation on production pad, Spill Area D, viewing to the northwest.



Backfilled excavation on lease road, Spill Area D, viewing to the northeast.



Backfilled excavation on lease road, Spill Area D, viewing to the east.



Backfilled excavation on lease road, Spill Area D, viewing to the south.



Backfilled excavation on lease road, Spill Area D, viewing to the south.



Backfilled excavation on lease road, Spill Area C, viewing to the south.



Backfilled excavation on lease road, Spill Area C, viewing to the south.



Backfilled excavation on lease road, Spill Area C, viewing to the south.



Backfilled excavation on lease road, Spill Area C, viewing to the south.



Backfilled excavation on lease road, Spill Area C, viewing to the south.



Backfilled excavation on lease road, Spill Area B, viewing to the east.



Backfilled excavation on lease road, Spill Area B, viewing to the east.



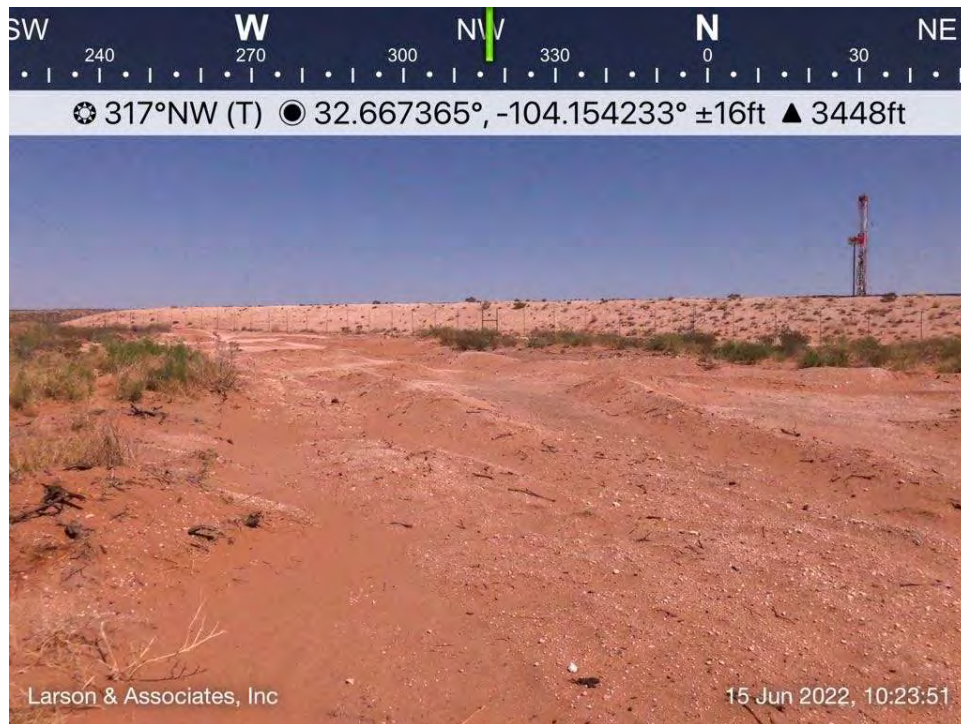
Backfilled excavation on lease road, Spill Area B, viewing to the east.



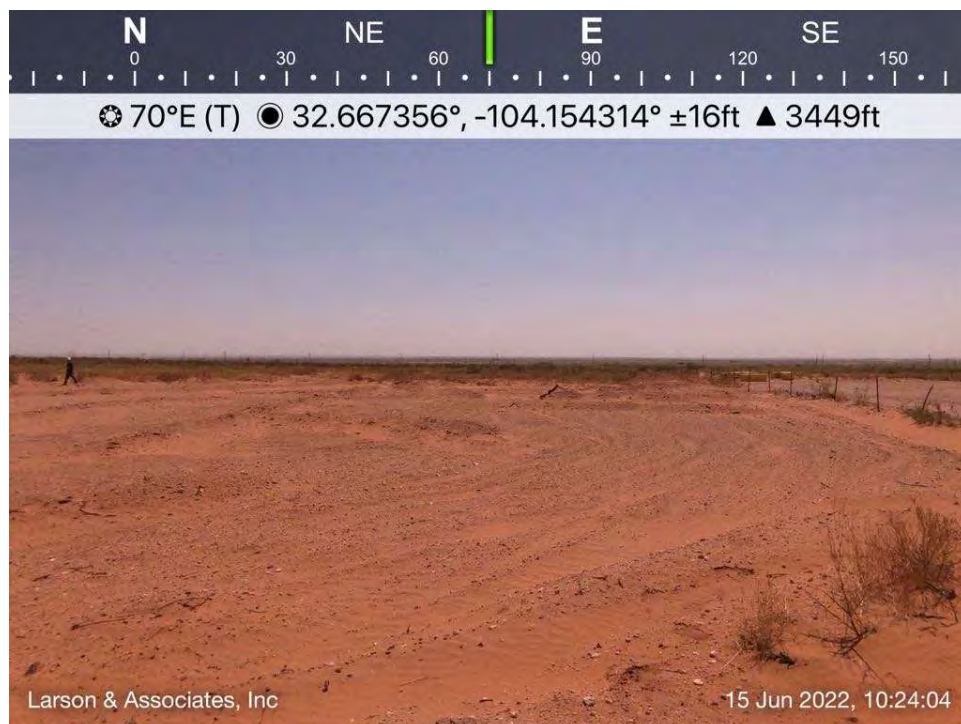
Backfilled excavation on lease road, Spill Area B, viewing to the east.



Backfilled excavation on lease road, Spill Area B, viewing to the east.



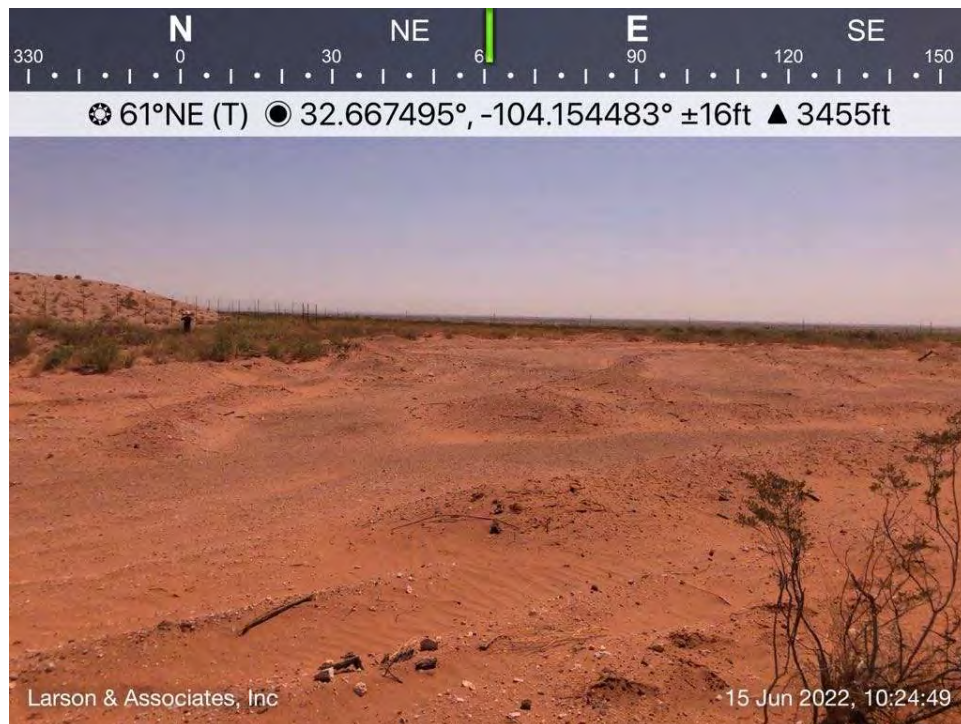
Contoured and seeded area in pasture, Spill Area E, viewing to the northwest.



Contoured and seeded area in pasture, Spill Area E, viewing to the east.



Seeded and contoured area in pasture, Spill Area E, viewing to the northwest.



Seed and contoured area in pasture, Spill Area E, viewing to the northeast.



Seeded and contoured area in pasture, Spill Area E, viewing to the northeast.



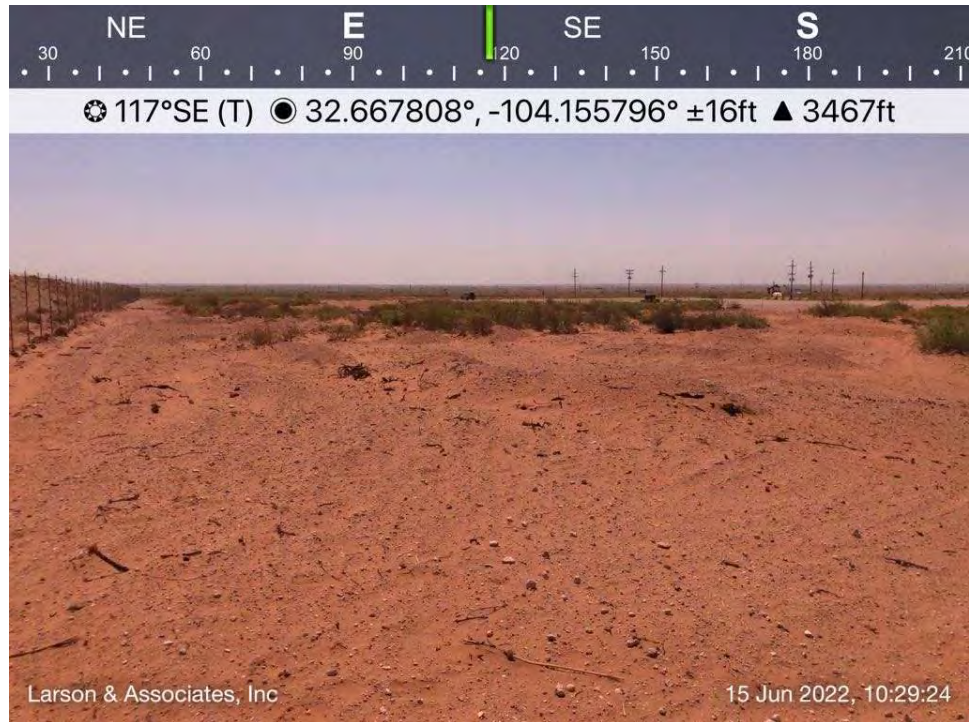
Seeded and contoured area in pasture, Spill Area E, viewing to the southwest.



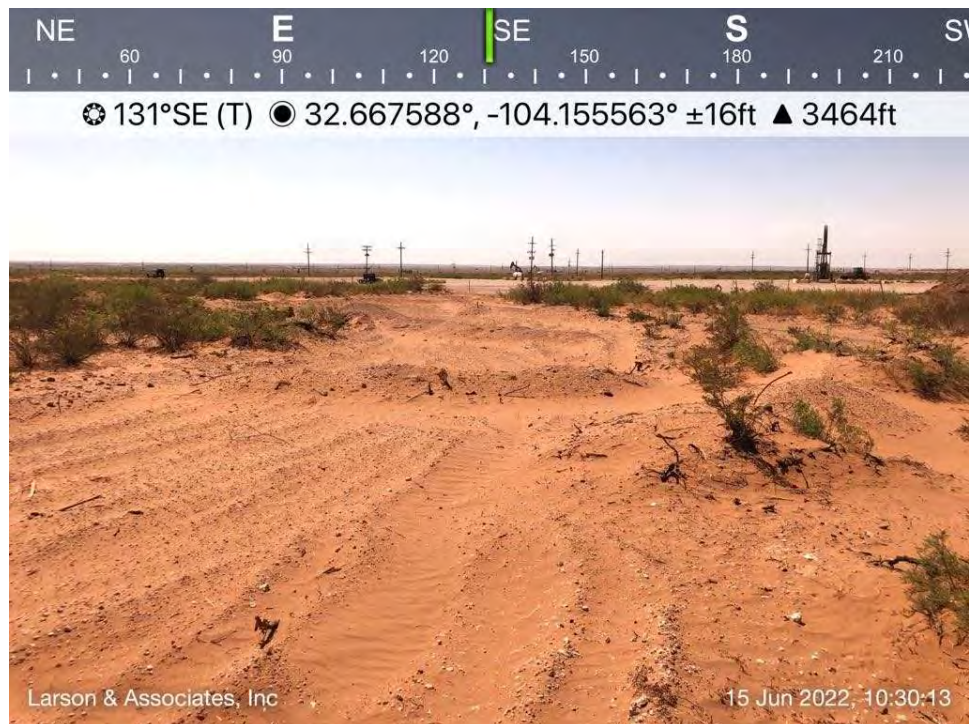
Backfilled area west of the frac pond, Spill Area E, viewing to the north.



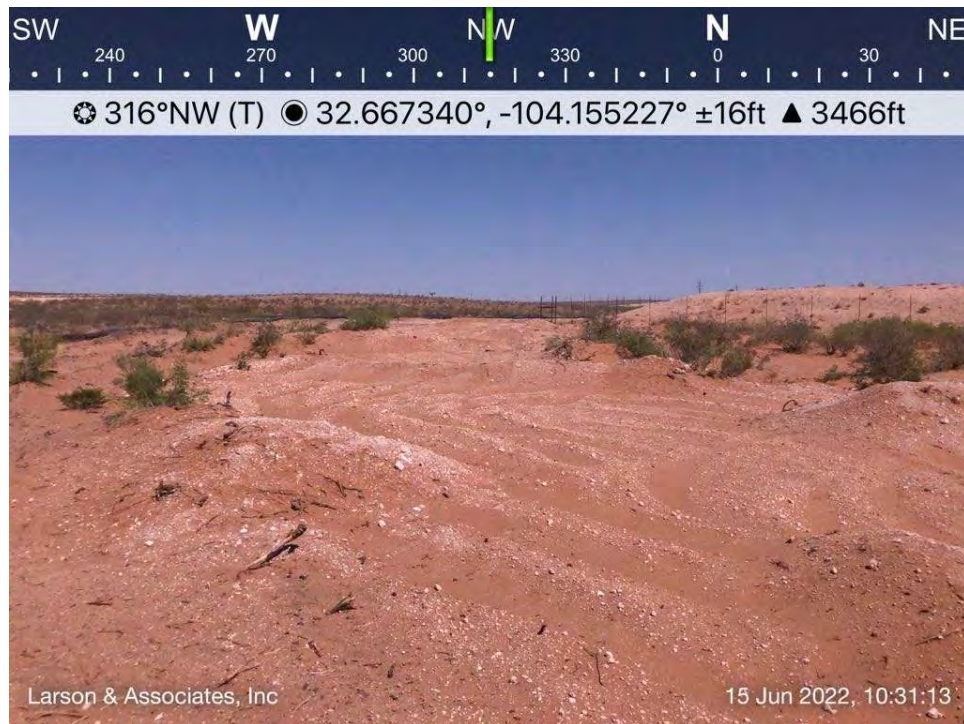
Seed and contoured area in pasture, Spill Area E, viewing to the southeast.



Seeded and contoured area in pasture, Spill Area E, viewing to the southeast.



Seed and contoured area in pasture, Spill Area E, viewing to the southeast.



Seeded and contoured area in pasture, Spill Area E, viewing to the northwest.



Seeded and contoured area in pasture, Spill Area E, viewing to the east.



Seeded and contoured area in pasture, Spill Area E, viewing to the northwest.



Backfilled area on pad, Spill Area D, viewing to the east.



Seeded and contoured area in pasture, Spill Area D, viewing to the southeast.



Seed and contoured area in pasture, Spill Area D, viewing to the southeast.



Seeded and contoured area in pasture area, Spill Area D, viewing to the southeast.



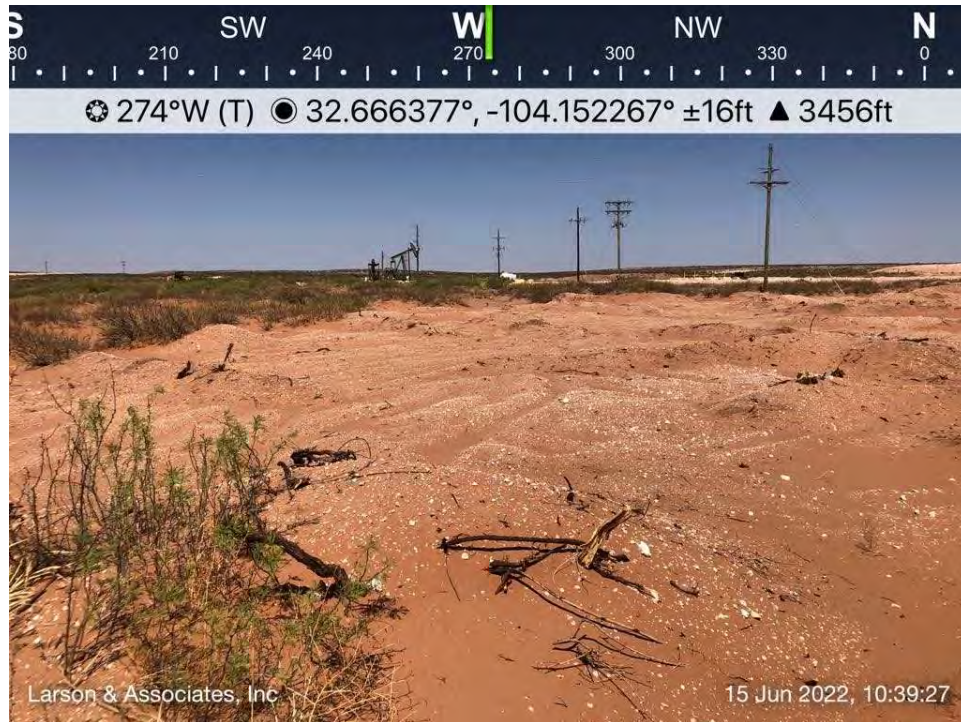
Seeded and contoured area in pasture, Spill Area D, viewing to the southeast.



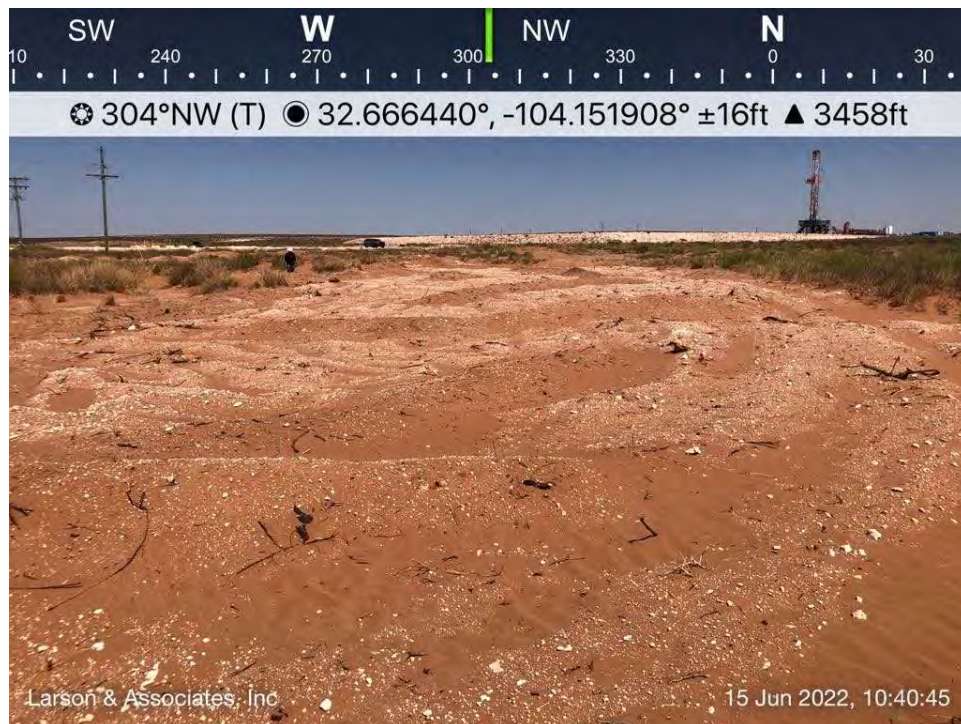
Seeded and contoured area in pasture, Spill Area D, viewing to the southeast.



Seeded and contoured area in pasture, Spill Area D, viewing to the east.



Seeded and contoured area in pasture, Spill Area D, viewing to the west.



Seeded and contoured area in pasture, Spill Area D, viewing to the northwest.



Seeded and contoured area in pasture, Spill Area A, viewing to the south.



Seeded and contoured area in pasture, Spill Area A, viewing to the south.



Drone imagery of seeded and contoured area in pasture on June 15, 2022, Spill Area E, viewing to the northwest. Coordinates: 32°40'01.8"N, 104°09'13.2"W



Drone imagery of seeded and contoured area in pasture on June 15, 2022, Spill Area D, viewing to the southeast. Coordinates: 32°40'02.5"N 104°09'14.1"W



Drone imagery of seeded and contoured area in pasture on June 15, 2022, Spill Area E, viewing to the northwest. Coordinates: 32°40'01.6"N 104°09'17.1"W



Drone imagery of seeded and contoured area in pasture on June 15, 2022, Spill Area E, viewing to the north. Coordinates: 32°40'02.2"N, 104°09'19.9"W



Drone imagery of seeded and contoured area in pasture on June 15, 2022, Spill Area E, viewing to the north. Coordinates: 32°40'08.3"N, 104°09'20.8"W



Drone imagery of seeded and contoured area in pasture and backfilled pad on June 15, 2022, Spill Area E and D, viewing to the southeast. Coordinates: 32°40'04.5"N, 104°09'20.9"W



Drone imagery of seeded and contoured area in pasture and backfilled lease road on June 15, 2022, Spill Area D, viewing to the southwest. Coordinates: 32°39'59.3"N, 104°09'05.9"W



Drone imagery of seeded and contoured area in pasture on June 15, 2022, Spill Area D, viewing to the northwest. Coordinates: 32°39'59.3"N, 104°09'06.5"W



Drone imagery of seeded and contoured area in pasture and backfilled lease road on June 15, 2022, Spill Area D, viewing to the southwest. Coordinates: 32°39'59.1"N, 104°09'07.2"W



Drone imagery of seeded and contoured area in pasture on June 15, 2022, Spill Area A, viewing to the south. Coordinates: 32°39'58.6"N, 104°08'29.7"W



Drone imagery of seeded and contoured area in pasture and backfilled lease road on June 15, 2022, Spill Area A and B, viewing directly above. Coordinates: 32°39'56.7"N, 104°08'29.4"W



Drone imagery of seeded and contoured area in pasture and backfilled lease road on June 15, 2022, Spill Area A and B, viewing to the northeast. Coordinates: 32°39'54.9"N, 104°08'31.6"W



Drone imagery of backfilled lease road on June 15, 2022, Spill Area C, viewing to the east.
Coordinates: 32°39'58.1"N, 104°08'49.2"W



Drone imagery of backfilled lease road on June 15, 2022, Spill Area C, viewing to the east.
Coordinates: 32°39'58.5"N, 104°08'43.6"W



Drone imagery of backfilled lease road on June 15, 2022, Spill Area B, viewing to the east.
Coordinates: 32°39'58.6"N, 104°08'35.3"W

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 66919

CONDITIONS

Operator: SELECT WATER SOLUTIONS, LLC 719 E Forest Ct Ln Mustang, OK 73064	OGRID: 289068
	Action Number: 66919
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2116630183 APACHE PALOMINO AST, thank you. This closure is approved.	6/22/2022